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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:49:03 ; Search time 42 Seconds
(without alignments)
183.068 Million cell updates/sec

Title: US-10-826-788-2
Perfect score: 560
Sequence: 1 MASRAVQLLLVAAMSGCG.....SIGAAHLIFCCFRDLNSEL 103

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued Patents AA:*
1: /cgn2_6/prodata/1/iaa/5A-COMB.pep:*
2: /cgn2_6/prodata/1/iaa/5B-COMB.pep:*
3: /cgn2_6/prodata/1/iaa/6A-COMB.pep:*
4: /cgn2_6/prodata/1/iaa/6B-COMB.pep:*
5: /cgn2_6/prodata/1/iaa/PCITUS-COMB.pep:*
6: /cgn2_6/prodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	560	100.0	103	2	US-08-448-561-4
2	444	79.3	81	2	US-08-448-561-1
3	133.5	23.8	123	4	US-09-698-705-17
4	133.5	23.8	123	4	US-09-698-705-19
5	130.5	23.3	123	3	US-09-203-939-7
6	130.5	23.3	123	3	US-09-251-835-7
7	130.5	23.3	123	3	US-09-318-503-7
8	130.5	23.3	123	3	US-09-038-261A-7
9	130.5	23.3	123	4	US-09-564-329A-7
10	130.5	23.3	123	4	US-09-963-620-7
11	130.5	23.3	123	4	US-09-855-632-7
12	130.5	23.3	123	4	US-09-934-773-7
13	128.5	22.9	123	3	US-09-203-939-4
14	128.5	22.9	123	3	US-09-251-835-4
15	128.5	22.9	123	3	US-09-318-503-4
16	128.5	22.9	123	3	US-09-038-261A-4
17	128.5	22.9	123	4	US-09-564-329A-4
18	128.5	22.9	123	4	US-09-963-620-4
19	128.5	22.9	123	4	US-09-855-632-4
20	128.5	22.9	123	4	US-09-934-773-4
21	122.5	21.9	123	3	US-09-203-939-2
22	122.5	21.9	123	3	US-09-251-835-2
23	122.5	21.9	123	3	US-09-318-503-2
24	122.5	21.9	123	3	US-09-038-261A-2
25	122.5	21.9	123	3	US-09-564-329A-2
26	122.5	21.9	123	3	US-09-963-620-2
27	122.5	21.9	123	3	US-09-855-632-2

28	122.5	21.9	123	3	US-09-038-261A-6	Sequence 6, Appli
29	122.5	21.9	123	4	US-09-564-329A-2	Sequence 2, Appli
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33	122.5	21.9	123	4	US-09-855-632-2	Sequence 2, Appli
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35	122.5	21.9	123	4	US-09-698-705-1	Sequence 6, Appli
36	122.5	21.9	123	4	US-09-934-773-2	Sequence 1, Appli
37	122.5	21.9	123	4	US-09-934-773-6	Sequence 2, Appli
38	121.5	21.7	123	2	US-08-675-508-2	Sequence 6, Appli
39	108	19.3	115	4	US-09-513-999C-7845	Sequence 2, Appli
40	108	19.3	115	4	US-09-513-999C-7846	Sequence 7845, Ap
41	108	19.3	115	4	US-09-513-999C-7846	Sequence 7846, Ap
42	108	19.3	115	4	US-09-513-999C-7847	Sequence 7847, Ap
43	108	19.3	128	6	5179198-1	Patent No. 5179198
44	108	19.3	128	6	5521296-1	Patent No. 5521296
45	108	19.3	128	6	5179198-1	Patent No. 5179198
46	108	19.3	128	6	5521296-1	Patent No. 5521296
47	105	18.8	135	4	US-09-949-016-9460	Sequence 9460, Ap
48	102.5	18.3	131	1	US-08-675-508-20	Sequence 20, Appl
49	102.5	18.3	131	1	US-08-154-916-2	Sequence 2, Appli
50	102.5	18.3	131	2	US-08-675-508-1	Sequence 1, Appli
51	102.5	18.3	131	2	US-09-139-424-2	Sequence 2, Appli
52	102.5	18.3	131	3	US-08-746-397-2	Sequence 2, Appli
53	102.5	18.3	131	3	US-09-203-939-5	Sequence 5, Appli
54	102.5	18.3	131	3	US-09-251-835-5	Sequence 5, Appli
55	102.5	18.3	131	3	US-09-318-503-5	Sequence 5, Appli
56	102.5	18.3	131	3	US-09-038-261A-5	Sequence 5, Appli
57	102.5	18.3	131	4	US-09-564-329A-5	Sequence 5, Appli
58	102.5	18.3	131	4	US-09-963-620-5	Sequence 5, Appli
59	102.5	18.3	131	4	US-09-855-632-5	Sequence 5, Appli
60	102.5	18.3	131	4	US-09-949-016-6211	Sequence 6211, Ap
61	102.5	18.3	131	4	US-09-934-773-5	Sequence 5, Appli
62	96.5	17.2	108	4	US-09-949-016-8741	Sequence 8741, Ap
63	95.5	17.1	79	1	US-09-513-999C-4705	Sequence 4705, Ap
64	94	16.8	160	4	US-08-154-916-3	Sequence 3, Appli
65	92	16.4	105	3	US-09-949-016-9856	Sequence 9856, Ap
66	91	16.2	77	4	US-09-591-435-12	Sequence 12, Appl
67	91	16.2	82	4	US-09-612-314A-37	Sequence 37, Appl
68	91	16.2	82	4	US-09-612-314A-40	Sequence 40, Appl
69	91	16.2	83	4	US-09-612-314A-41	Sequence 41, Appl
70	91	16.2	103	1	US-08-271-562-1	Sequence 1, Appli
71	91	16.2	103	2	US-08-696-777-3	Sequence 3, Appli
72	91	16.2	103	2	US-08-483-433-3	Sequence 1, Appli
73	91	16.2	103	5	PCT-US92-05920-3	Sequence 3, Appli
74	90	16.1	70	4	US-09-612-314A-39	Sequence 39, Appl
75	90	16.1	71	4	US-09-612-314A-42	Sequence 42, Appl
76	90	16.1	138	3	US-08-746-397-11	Sequence 11, Appl
77	89	15.9	76	1	US-08-154-916-10	Sequence 10, Appl
78	89	15.9	76	1	US-08-154-916-11	Sequence 11, Appl
79	89	15.9	117	3	US-09-227-357-238	Sequence 238, App
80	88.5	15.8	136	2	US-08-675-508-5	Sequence 5, Appli
81	87	15.5	121	3	US-09-591-435-13	Sequence 13, Appl
82	85.5	15.3	84	3	US-08-578-674-2	Sequence 2, Appli
83	85.5	15.3	84	3	US-09-498-346-2	Sequence 2, Appli
84	83.5	14.9	88	4	US-09-513-999C-4687	Sequence 4687, Ap
85	81.5	14.6	79	1	US-08-154-916-8	Sequence 8, Appli
86	80.5	14.4	140	4	US-09-252-991A-31170	Sequence 31170, A
87	80.5	14.4	590	4	US-09-270-767-45038	Sequence 45038, A
88	80	14.3	117	4	US-09-270-767-47400	Sequence 47400, A
89	78.5	14.0	79	1	US-08-154-916-13	Sequence 13, Appl
90	78.5	14.0	273	4	US-08-270-767-41968	Sequence 41968, A
91	77.5	13.8	79	1	US-08-154-916-12	Sequence 12, Appl
92	77.5	13.8	127	4	US-09-252-991A-25856	Sequence 25856, A
93	76.5	13.7	79	1	US-08-154-916-9	Sequence 9, Appli
94	76	13.6	187	4	US-09-949-016-10507	Sequence 10507, A
95	73.5	13.1	650	1	US-08-325-071-59	Sequence 59, Appl
96	73.5	13.1	650	3	US-08-461-004A-59	Sequence 59, Appl
97	73.5	13.1	911	2	US-08-484-438-10	Sequence 10, Appl
98	73.5	13.1	1058	2	US-08-484-438-4	Sequence 4, Appli
99	73.5	13.1	1308	2	US-08-484-438-2	Sequence 2, Appli
100	73	13.0	742	4	US-09-252-991A-24289	Sequence 24289, A

COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/448,561
FILING DATE: 22-JAN-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 92 A/919
FILING DATE: 22-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: SIRNA=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 81 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: URINE
US-08-448-561-1

Query Match 79.3%; Score 444; DB 2; Length 81;
Best Local Similarity 100.0%; Pred. No. 2.9e-40;
Matches 81; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 23 LKCYTCKEPMTSASCRITITCKPEDTACMTTLVTVEAEYFNQSPVTVTRSCSSCVATDP 82
Db 1 LKCYTCKEPMTSASCRITITCKPEDTACMTTLVTVEAEYFNQSPVTVTRSCSSCVATDP 60

Qy 83 DSIGAHLIFCCPRDLNSEL 103
Db 61 DSIGAHLIFCCPRDLNSEL 81

RESULT 3
US-09-698-705-17
Sequence 17, Application US/09698705
Patent No. 6824780
GENERAL INFORMATION:
APPLICANT: Devaux, B.
APPLICANT: Keller, G.
APPLICANT: Koeppe, H.
APPLICANT: Lasky, L.
TITLE OF INVENTION: Anti-Tumor Antibody Compositions and Methods of Use
FILE REFERENCE: P1777R1
CURRENT APPLICATION NUMBER: US/09/698,705
CURRENT FILING DATE: 2000-10-27
PRIOR APPLICATION NUMBER: US 60/162,558
PRIOR FILING DATE: 1999-10-29
PRIOR APPLICATION NUMBER: US 60/182,872
PRIOR FILING DATE: 2000-02-16
NUMBER OF SEQ ID NOS: 25
SEQ ID NO 17
LENGTH: 123
TYPE: PRT
ORGANISM: Macaca fascicularis
US-09-698-705-17

Query Match 23.8%; Score 133.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 6.6e-07;
Matches 28; Conservative 15; Mismatches 44; Indels 5; Gaps 1;

ALIGNMENTS

RESULT 1
US-08-448-561-4
Sequence 4, Application US/08448561
Patent No. 5908827
GENERAL INFORMATION:
APPLICANT: SIRNA, Antonio
TITLE OF INVENTION: NEW PROTEIN FROM URINE NAMED COMPONENT B
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/448,561
FILING DATE: 22-JAN-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT RM 92 A/919
FILING DATE: 22-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: SIRNA=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 103 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-448-561-4

Query Match 100.0%; Score 560; DB 2; Length 103;
Best Local Similarity 100.0%; Pred. No. 1.6e-52;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MASRWAVQLLLVAWSMCGEALKCYTCKEPMTSASCRITITCKPEDTACMTTLVTVEAE 60

Qy 61 YFNQSPVTVTRSCSSCVATDPDSIGAHLIFCCPRDLNSEL 103
Db 61 YFNQSPVTVTRSCSSCVATDPDSIGAHLIFCCPRDLNSEL 103

RESULT 2
US-08-448-561-1
Sequence 1, Application US/08448561
Patent No. 5908827
GENERAL INFORMATION:
APPLICANT: SIRNA, Antonio
TITLE OF INVENTION: NEW PROTEIN FROM URINE NAMED COMPONENT B
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.

QY 10 LLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFNPQSPV 69
Db 8 LLMAGLALQPGTALLCYSCKAQVSNEDCLNVNCTQPEQCWTERIRA-----VGLLTVI 62

QY 70 TRSCSSSCVATDPDSICAHAHLIFCCFRDLCLNS 101
Db 63 SKGSSNCVDDSDQDYVYGKKNITCCDTDLCLNA 94

RESULT 4
US-09-698-705-19
; Sequence 19, Application US/09698705
; Patent No. 6824780
; GENERAL INFORMATION:
; APPLICANT: Devaux, B.
; APPLICANT: Keller, G.
; APPLICANT: Koepfen, H.
; APPLICANT: Lasky, L.
; TITLE OF INVENTION: Anti-Tumor Antibody Compositions and Methods of Use
; CURRENT APPLICATION NUMBER: US/09/698,705
; CURRENT FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/162,558
; PRIOR FILING DATE: 1999-10-29
; PRIOR APPLICATION NUMBER: US 60/182,872
; PRIOR FILING DATE: 2000-02-16
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO 19
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Macaca fascicularis
US-09-698-705-19

Query Match 23.8%; Score 133.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 6.6e-07;
Matches 28; Conservative 15; Mismatches 44; Indels 5; Gaps 1;

QY 10 LLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFNPQSPV 69
Db 8 LLMAGLALQPGTALLCYSCKAQVSNEDCLNVNCTQPEQCWTERIRA-----VGLLTVI 62

QY 70 TRSCSSSCVATDPDSICAHAHLIFCCFRDLCLNS 101
Db 63 SKGSSNCVDDSDQDYVYGKKNITCCDTDLCLNA 94

RESULT 5
US-09-203-939-7
; Sequence 7, Application US/09203939
; Patent No. 6258939
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US11
; CURRENT APPLICATION NUMBER: US/09/203,939
; CURRENT FILING DATE: 2000-12-02
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-203-939-7

Query Match 23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTT-----LVTVEAEY 62
Db 7 LLLATYALHPGAALQCYSCTAQMNRLCLNVQNCSLDQHSCTFSRIRAILVT----- 60

QY 63 FNQSPVVTTRSCSSCVATDPDS---IGAHLIFCCFRDLCLN 100
Db 61 -----VISKGSQC---EDDSYNYLGGKN-ITCCYSDCLN 93

RESULT 6
US-09-251-835-7
; Sequence 7, Application US/09251835A
; Patent No. 6261789
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54US12
; CURRENT APPLICATION NUMBER: US/09/251,835A
; CURRENT FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-251-835-7

Query Match 23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTT-----LVTVEAEY 62
Db 7 LLLATYALHPGAALQCYSCTAQMNRLCLNVQNCSLDQHSCTFSRIRAILVT----- 60

QY 63 FNQSPVVTTRSCSSCVATDPDS---IGAHLIFCCFRDLCLN 100
Db 61 -----VISKGSQC---EDDSYNYLGGKN-ITCCYSDCLN 93

RESULT 7
US-09-318-503-7
; Sequence 7, Application US/09318503A
; Patent No. 6261791
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US13
; CURRENT APPLICATION NUMBER: US/09/318,503A
; CURRENT FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; EARLIER FILING DATE: 1998-02-13

; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/564,329A
; CURRENT FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-564-329A-7

Query Match 23.3%; Score 130.5; DB 4; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAASMGCEALKCYCKEPMTSASCRITITCKPEDTACMTT-----LVTVEAEP 62
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Db 7 LLLATYLALHPGAALQCYCTAQMNRDCLNVQNCSDLQHSCTFSRIRAIGLVT----- 60
||| : : ||| :
Qy 63 FNQSPVTRSCSSCVATDPDS-----TGAHILFCCFRDLN 100
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Db 61 -----VISKGCSSQC---EDDSENYILGKN-ITCCYSIDLN 93
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RESULT 10
US-09-963-620-7
; Sequence 7, Application US/09963620
; Patent No. 6756036
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/963,620
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17

; EARLIER APPLICATION NUMBER: 09/038,261
; EARLIER FILING DATE: 1998-03-10
; EARLIER APPLICATION NUMBER: 09/203,939
; EARLIER FILING DATE: 1998-12-02
; EARLIER APPLICATION NUMBER: 09/251,835
; EARLIER FILING DATE: 1999-02-17
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-318-503-7

Query Match 23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAASMGCEALKCYCKEPMTSASCRITITCKPEDTACMTT-----LVTVEAEP 62
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Db 7 LLLATYLALHPGAALQCYCTAQMNRDCLNVQNCSDLQHSCTFSRIRAIGLVT----- 60
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Qy 63 FNQSPVTRSCSSCVATDPDS-----TGAHILFCCFRDLN 100
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Db 61 -----VISKGCSSQC---EDDSENYILGKN-ITCCYSIDLN 93
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RESULT 8
US-09-038-261A-7
; Sequence 7, Application US/09038261A
; Patent No. 6267960
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/038,261A
; CURRENT FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSCA (mpSCA)
US-09-038-261A-7

Query Match 23.3%; Score 130.5; DB 3; Length 123;
Best Local Similarity 31.4%; Pred. No. 1.4e-06;
Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAASMGCEALKCYCKEPMTSASCRITITCKPEDTACMTT-----LVTVEAEP 62
||| : : ||| :
Db 7 LLLATYLALHPGAALQCYCTAQMNRDCLNVQNCSDLQHSCTFSRIRAIGLVT----- 60
||| : : ||| :
Qy 63 FNQSPVTRSCSSCVATDPDS-----TGAHILFCCFRDLN 100
||| : : ||| :
Db 61 -----VISKGCSSQC---EDDSENYILGKN-ITCCYSIDLN 93
||| : : ||| :

RESULT 9
US-09-564-329A-7
; Sequence 7, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.


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; TYPE: PRT
; ORGANISM: MURINE PSKA (mPSCA)
US-09-038-261A-4

Query Match      22.9%; Score 128.5; DB 3; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAWSMCGEALKCVCYCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db 7 ILLATYLAHPGAALQCYCTAQMNRDCLNVQNCSDLQHSCTFSRIRAIGLVT-----60

Qy 63 FNQSPVTVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db 61 -----VISKGCSSQC---EDDSENYLGKKN-ITCCYSDLCN 93

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RESULT 17
US-09-564-329A-4
; Sequence 4, Application US/09564329A
; Patent No. 6541212
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/564,329A
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSKA (mPSCA)
US-09-564-329A-4

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Query Match      22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAWSMCGEALKCVCYCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db 7 ILLATYLAHPGAALQCYCTAQMNRDCLNVQNCSDLQHSCTFSRIRAIGLVT-----60

Qy 63 FNQSPVTVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db 61 -----VISKGCSSQC---EDDSENYLGKKN-ITCCYSDLCN 93

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RESULT 18

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US-09-963-620-4
; Sequence 4, Application US/09963620
; Patent No. 6756036
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/963,620
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279
; PRIOR FILING DATE: 1997-03-10
; PRIOR APPLICATION NUMBER: 60/071,141
; PRIOR FILING DATE: 1998-01-12
; PRIOR APPLICATION NUMBER: 60/074,675
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 60/113,230
; PRIOR FILING DATE: 1998-12-21
; PRIOR APPLICATION NUMBER: 60/120,536
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 60/124,658
; PRIOR FILING DATE: 1999-03-16
; PRIOR APPLICATION NUMBER: 09/038,261
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 09/203,939
; PRIOR FILING DATE: 1998-12-02
; PRIOR APPLICATION NUMBER: 09/251,835
; PRIOR FILING DATE: 1999-02-17
; PRIOR APPLICATION NUMBER: 09/308,503
; PRIOR FILING DATE: 1999-05-25
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 123
; TYPE: PRT
; ORGANISM: MURINE PSKA (mPSCA)
US-09-963-620-4

Query Match      22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

Qy 9 LLLVAWSMCGEALKCVCYCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAEYP 62
Db 7 ILLATYLAHPGAALQCYCTAQMNRDCLNVQNCSDLQHSCTFSRIRAIGLVT-----60

Qy 63 FNQSPVTVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db 61 -----VISKGCSSQC---EDDSENYLGKKN-ITCCYSDLCN 93

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RESULT 19
US-09-855-632-4
; Sequence 4, Application US/09855632
; Patent No. 6790939
; GENERAL INFORMATION:
; APPLICANT: Reiter, Robert E.
; APPLICANT: Witte, Owen N.
; APPLICANT: Saffran, Douglas C.
; TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
; FILE REFERENCE: 30435.54US14
; CURRENT APPLICATION NUMBER: US/09/855,632
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: 09/564,329
; PRIOR FILING DATE: 2000-05-03
; PRIOR APPLICATION NUMBER: 09/359,326
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 08/814,279

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1997-03-10
60/071,141
1998-01-12
60/074,675
1998-02-13
60/113,230
1998-12-21
60/120,536
1999-02-17
60/124,658
1999-03-16
09/038,261
09/203,939
1998-12-02
09/251,835
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09/308,503
1999-05-25
27
2.0
123
PRT
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US-09-934-773-4

Query Match 22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLLVAWSMGCGEALKCYTCCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAAYP 62
DB 7 ILLATYLAHPGAALQCYSCYTAQNNRDCLNVQNCSDLQHSCTFSRIRAIGLVT-----60
QY 63 FNQSPVVTTRSCSSSCVATDPDS-----IGAAHLIFCCFRDLN 100
DB 61 -----VISKGCSSQC---EDDSENVYLKKN-ITCCYSDLCN 93

RESULT 21
US-09-203-939-2
Sequence 2, Application US/09203939
Patent No. 6258939
GENERAL INFORMATION:
APPLICANT: Reiter, Robert E.
APPLICANT: Witte, Owen N.
TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
FILE REFERENCE: 30435.54US11
CURRENT APPLICATION NUMBER: US/09/203,939
CURRENT FILING DATE: 2000-12-02
PRIOR APPLICATION NUMBER: 08/814,279
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: 60/071,141
PRIOR FILING DATE: 1998-01-12
PRIOR APPLICATION NUMBER: 60/074,675
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: 09/038,261
PRIOR FILING DATE: 1998-03-10
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 123
TYPE: PRT
ORGANISM: HUMAN PSKA (hPSCA)
FEATURE:
NAME/KEY: SITE
LOCATION: (50)..(64)
NAME/KEY: SITE
LOCATION: (71)..(82)
NAME/KEY: SITE
LOCATION: (67)..(81)
US-09-203-939-2

Query Match 21.9%; Score 122.5; DB 3; Length 123;
Best Local Similarity 29.3%; Pred. No. 9.9e-06;
Matches 27; Conservative 14; Mismatches 46; Indels 5; Gaps 1;

QY 10 LLLVAWSMGCGEALKCYTCCKEPTMTSASCRITTRCKPEDTACMTTLLVTVEAAYPFPNQSPV 69
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QY 70 TRSCSSSCVATDPDSIGAAHLIFCCFRDLN 101
DB 63 SKGCSLNCVDDSDQDYVVGKKNITCCDTDLN 94

RESULT 22
US-09-203-939-6

1997-03-10
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1998-01-12
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1998-02-13
60/113,230
1998-12-21
60/120,536
1999-02-17
60/124,658
1999-03-16
09/038,261
09/203,939
1998-12-02
09/251,835
1999-02-17
09/308,503
1999-05-25
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PRT
MURINE PSKA (mPSCA)
US-09-855-632-4

Query Match 22.9%; Score 128.5; DB 4; Length 123;
Best Local Similarity 30.4%; Pred. No. 2.3e-06;
Matches 31; Conservative 17; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLLVAWSMGCGEALKCYTCCKEPTMTSASCRITTRCKPEDTACMTT-----LVTVEAAYP 62
DB 7 ILLATYLAHPGAALQCYSCYTAQNNRDCLNVQNCSDLQHSCTFSRIRAIGLVT-----60
QY 63 FNQSPVVTTRSCSSSCVATDPDS-----IGAAHLIFCCFRDLN 100
DB 61 -----VISKGCSSQC---EDDSENVYLKKN-ITCCYSDLCN 93

RESULT 20
US-09-934-773-4
Sequence 4, Application US/09934773
Patent No. 6825326
GENERAL INFORMATION:
APPLICANT: Reiter, Robert E.
APPLICANT: Witte, Owen N.
APPLICANT: Saffran, Douglas C.
TITLE OF INVENTION: PSKA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
FILE REFERENCE: 30435.54US14
CURRENT APPLICATION NUMBER: US/09/934,773
CURRENT FILING DATE: 2001-08-21
PRIOR APPLICATION NUMBER: 09/564,329
PRIOR FILING DATE: 2000-05-03
PRIOR APPLICATION NUMBER: 09/359,326
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 08/814,279
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: 60/071,141
PRIOR FILING DATE: 1998-01-12
PRIOR APPLICATION NUMBER: 60/074,675
PRIOR FILING DATE: 1998-02-13
PRIOR APPLICATION NUMBER: 60/113,230
PRIOR FILING DATE: 1998-12-21
PRIOR APPLICATION NUMBER: 60/120,536
PRIOR FILING DATE: 1999-02-17
PRIOR APPLICATION NUMBER: 60/124,658
PRIOR FILING DATE: 1999-03-16
PRIOR APPLICATION NUMBER: 09/038,261
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 09/203,939
PRIOR FILING DATE: 1998-12-02
PRIOR APPLICATION NUMBER: 09/251,835

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:48:57 ; Search time 170 Seconds
(without alignments)
310.260 Million cell updates/sec

Title: US-10-826-788-2
Perfect score: 560
Sequence: 1 MASRWAVQLLVAAWSMGCG.....SIGAAHLIPCCPRDLNCSEL 103

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Uniprot_03.*
1: uniprot_sprot.*
2: uniprot_treml.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	556	99.3	103	2 Q6PUA6	Q6puu6 homo sapien
3	400	71.4	110	1 SLUR_MOUSE	Q920x7 mus musculus
4	215	38.4	127	2 Q9DD23	Q9dd23 mus musculus
5	208.5	37.2	125	2 Q6UXB3	P6uxb3 homo sapien
6	130.5	23.3	123	1 PSCA_MOUSE	P57096 mus musculus
7	130.5	23.3	123	2 Q9D7U0	Q9d7u0 mus musculus
8	122.5	21.9	119	2 Q6UW92	Q6uw92 homo sapien
9	122.5	21.9	123	1 PSCA_HUMAN	O43653 homo sapien
10	113.5	20.3	124	2 Q8R155	Q8r155 mus musculus
11	112	20.0	129	2 Q920G7	Q920g7 mus musculus
12	111	19.8	131	1 LY6C_MOUSE	P09568 mus musculus
13	110	19.6	131	2 Q8C2D8	Q8c2d8 mus musculus
14	108	19.3	126	1 CD59_RAT	P27274 rattus norv
15	108	19.3	128	1 CD59_HUMAN	P13987 h cd59 glyc
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18	105	18.8	261	1 LY6E_CHICK	Q90986 gallus gall
19	102.5	18.3	131	1 LY6E_HUMAN	Q16553 homo sapien
20	102	18.2	131	2 Q91XG0	Q91xg0 mus musculus
21	100.5	17.9	97	2 Q86SR0	Q86sr0 homo sapien
22	100.5	17.9	127	1 LY6D_MOUSE	P35459 mus musculus
23	100.5	17.9	128	1 LY6D_HUMAN	Q14210 homo sapien
24	99.5	17.8	131	2 Q8N5J9	Q8n5j9 homo sapien
25	99	17.7	126	1 CD59_PAPSP	Q28785 papio sp. (
26	98.5	17.6	124	1 CD59_RABIT	O77541 cryptotag
27	98.5	17.6	134	1 LY6I_MOUSE	Q9wu67 mus musculus
28	98	17.5	128	1 CD59_CERAE	Q28216 cercopithec
29	98	17.5	128	2 Q8SQ46	Q8sq46 macaca fasc
30	98	17.5	128	2 Q8SQ46	Q8sq46 macaca fasc
31	95.5	17.1	260	2 Q9PU19	Q9pu19 xenopus lae

32	94	16.8	140	1	LY6H_HUMAN	O94772 homo sapien
33	94	16.8	140	2	Q6IAx0	Q6iax0 homo sapien
34	94	16.8	140	2	Q9CWP4	Q9cwp4 mus musculus
35	93.5	16.7	123	1	C59A_MOUSE	C55186 mus musculus
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38	92.5	16.5	79	1	NXS7_PSETE	Q9w7j7 pseudonaja
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42	92	16.4	133	2	Q78BE7	Q78ee7 rattus norv
43	92	16.4	134	2	Q63318	Q63318 rattus norv
44	92	16.4	258	2	Q6IQW1	Q6iqw1 brachydanio
45	92	16.4	258	2	Q9DFZ0	Q9dfz0 brachydanio
46	91.5	16.3	135	2	Q92IQ3	Q92iq3 mus musculus
47	91	16.2	116	1	LYNX_MOUSE	Q9wrc2 mus musculus
48	90.5	16.2	134	1	LY6A_MOUSE	F05533 mus musculus
49	90	16.1	63	1	NXS2_BUNFA	P14534 bungarus fa
50	89	15.9	86	2	Q8AY51	Q8ay51 bungarus ca
51	89	15.9	116	1	LYNX_HUMAN	Q9bvg9 homo sapien
52	88.5	15.8	79	1	NXS3_PSETE	Q9w7k0 pseudonaja
53	88.5	15.8	83	2	Q71TU2	Q71tu2 plethodon j
54	88.5	15.8	130	1	LY6E_MOUSE	Q64253 mus musculus
55	88.5	15.8	133	2	Q9CXN2	Q9cxn2 mus musculus
56	88.5	15.8	136	2	Q99JA5	Q99ja5 mus musculus
57	88.5	15.8	260	2	Q6F2E0	Q6f2e0 xenopus tro
58	88.5	15.8	2931	2	Q9W2C6	Q9w2c6 drosophila
59	88.5	15.8	2968	2	Q8MLU9	Q8mlu9 drosophila
60	88	15.7	123	1	CD59_PIG	O62880 sus scrofa
61	87.5	15.6	79	1	NXS2_PSETE	Q9w7k1 pseudonaja
62	87.5	15.6	111	1	LY6G_MOUSE	P35461 mus musculus
63	87.5	15.6	145	2	O17890	O17890 caenorhabdi
64	87	15.5	118	1	LYNX_MACMU	P61050 macaca mula
65	86.5	15.4	134	1	LY6F_MOUSE	P35460 mus musculus
66	86	15.4	86	1	TXW6_NAJSP	O42256 najja sputat
67	86	15.4	119	2	Q64HX7	Q64hx7 oncorhynch
68	85.5	15.3	84	1	XEN1_XENLA	Q90922 xenopus lae
69	85.5	15.3	91	2	Q6TXT1	Q6txt1 ctenopharyn
70	85.5	15.3	134	2	Q6MG58	Q6mg58 rattus norv
71	85.5	15.3	174	1	KR92_HUMAN	Q9byq4 homo sapien
72	85.5	15.3	185	2	Q9VK99	Q9vk99 drosophila
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74	85	15.2	86	1	TXW5_NAJSP	O42255 najja sputat
75	85	15.2	86	1	TXW8_NAJSP	Q802b3 najja sputat
76	85	15.2	139	1	LY6H_MOUSE	Q9wuc3 mus musculus
77	85	15.2	160	2	Q8K356	Q8k356 mus musculus
78	84	15.0	86	1	TXW9_NAJSP	Q9w7i3 najja sputat
79	83.5	14.9	99	2	Q9D248	Q9d248 mus musculus
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83	83	14.8	128	1	CD59_AOTTR	P51447 aotus trivi
84	83	14.8	147	2	CD59_CALSQ	P46657 callithrix
85	83	14.8	147	2	Q9VIH9	Q9vih9 drosophila
86	82.5	14.7	79	1	NXS1_PSETE	Q9w7k2 pseudonaja
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91	81.5	14.6	81	2	Q71TU1	Q71tu1 plethodon j
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94	81.5	14.6	184	2	Q6P3T2	Q6p3t2 homo sapien
95	81.5	14.6	184	2	Q86W15	Q86w15 homo sapien
96	81.5	14.6	209	2	Q8IV16	Q8iv16 homo sapien
97	81	14.5	86	1	TXW1_NAJAT	P60814 najja atra (
98	81	14.5	191	2	Q96368	Q96368 schistosoma
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100	80.5	14.4	89	1	NXG2_BUNMU	Q9w796 bungarus mu

ALIGNMENTS


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RA Arredondo J., Grando S.;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY579079; AAT01436.1; -.
DR InterPro; IPR003632; Ly-6 CD59.
DR Pfam; PF00021; UPAR_LY6; 1.
DR ProDom; PD003128; Ly-6_CD59; 1.
SQ SEQUENCE 103 AA; 11154 MW; 1D1B5DA603030392 CRC64;

Query Match 99.3%; Score 556; DB 2; Length 103;
Best Local Similarity 99.0%; Pred. No. 1.2e-49;
Matches 102; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MASRWAVQLLLVAAMSGCEALKVCYCKEPMTSASCRITTRCKPBDTACMTTLTVTEAE 60
QY 61 YPFNQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRLCNSEL 103
DB 61 YPFNQSPVVTTRSCSSCVATDPDSIGAHLIFCCFRLCNSEL 103

RESULT 3
SLUR_MOUSE STANDARD; PRT; 110 AA.
AC Q9ZOK7;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE Secreted Ly-6/uPAR related protein 1 precursor (SLURP-1) (ARS
  Component B).
GN Name=Slurp1; Synonym=ARS;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/C;
RA Mastrangelo R., Donini S., Kelton C., Lou S., Serlupi-Crescenzi O.,
RA Vaccaro R., Renda T., Bressan A., Micangeli E., Milazzo F., Ciolli V.,
RA Biffoni M., El Tayar N., Lisciani R., Borrelli F., Martelli F.,
RA Serani S., Papoiaru R.;
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Kongaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maitais L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pextea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Sempile C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
RA Hara A., Hashizume W., Imotani K., Ighii Y., Itoh M., Kagawa I.,
```


Proc. Natl. Acad. Sci. U.S.A. 95:1735-1740(1998).

-1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By similarity).

-1- TISSUE SPECIFICITY: Predominantly expressed in prostate. Also found in spleen, liver, lung, prostate, kidney and testis.

-1- SIMILARITY: Contains 1 UPAR/Ly6 domain.

HSP; P13987; 1CDS.

MGI:1919623; Peca.

InterPro; IPR003632; Ly-6_CD59.

InterPro; IPR001526; Ly6_UPAR.

Pfam; PF00021; UPAR_Ly6; 1.

ProDom; PD003128; Ly-6_CD59; 1.

SMART; SM00134; LU; 1_CD59; 1.

PROSITE; PS00983; Ly6_UPAR; 1.

Antigen; Glycoprotein; GPI-anchor; Lipoprotein; Membrane; Signal.

SIGNAL 1 20 By similarity.

CHAIN 21 95 Prostate stem cell antigen.

PROPEP 96 123 Removed in mature form (By similarity).

DOMAIN 21 95 UPAR/Ly6.

DISULFID 23 48 By similarity.

DISULFID 26 35 By similarity.

DISULFID 41 66 By similarity.

DISULFID 70 86 By similarity.

DISULFID 87 92 By similarity.

CARBOHYD 40 40 N-linked (GlcNAc...) (Potential).

CARBOHYD 83 83 N-linked (GlcNAc...) (Potential).

LIPID 95 GPI-anchor amidated asparagine (By similarity).

SEQUENCE 123 AA; 13443 MW; CDA8566F37307BCC CRC64;

Query Match 23.3%; Score 130.5; DB 1; Length 123;

Best Local Similarity 31.4%; Pred. No. 9.6e-06;

Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY 9 LLLVAWSMGCGEALKCYCKEPMTSASCTRTTRCKPDTACMT-----LVTVEAEYP 62

Db 7 LLLATVLAHPGALQCYCTAQMNRDCLNVQNSLDQHSFTRIRAIQVLT----- 60

QY 63 FQNSPVVTRSCSSSVATDPDS-----IGAAHLIFCCFDLCLN 100

Db 61 -----VISKGCSSQC---EDDSENVYLGKKN-ITCCYSCLCN 93

RESULT 7

Q9D7U0 PRELIMINARY; PRT; 123 AA.

AC Q9D7U0;

DT 01-JUN-2001 (TrEMBLrel. 17, Created)

DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)

DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)

DE Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone:2210408B04 product:prostate stem cell antigen, full insert sequence (Prostate stem cell antigen).

GN Name=Pscal;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

PI 1

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RX MEDLINE=9279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;

RA Carninci P., Hayashizaki Y.;

RT "High-efficiency full-length cDNA cloning.";

RL Meth. Enzymol. 303:19-44(1999).

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;

RA RIKEN FANTOM Consortium;

RT "Functional annotation of a full-length mouse cDNA collection.";

RL Nature 409:685-690(2001).

RN [3]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;

RA Carninci P., Shibata Y., Hayatsu M., Sugahara Y., Shibata K., Itoh M., Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;

RT "Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes.";

RL Nature 420:563-573(2002).

RN [4]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P., Konno H., Akiyama J., Nishi K., Kitsuunai T., Tashiro H., Itoh M., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M., Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J., Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

RT "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";

RL Genome Res. 10:1757-1771(2000).

RN [6]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;

RA Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P., Konno H., Akiyama J., Nishi K., Kitsuunai T., Tashiro H., Itoh M., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Fujiwaka S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M., Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J., Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;

RT "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";

RL Genome Res. 10:1757-1771(2000).

RN [6]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RX MEDLINE=21371909; PubMed=11479226;

RA Yang D., Holt G.E., Velders M.P., Kwon E.D., Kast W.M.;

RT "Murine six-transmembrane epithelial antigen of the prostate, prostate stem cell antigen, and prostate-specific membrane antigen: prostate-specific cell surface antigens highly expressed in prostate cancer of transgenic adenocarcinoma mouse prostate mice.";

RL Cancer Res. 61:5857-5860(2001).

DR EMBL; AK008851; BAB25929.1; -.

DR EMBL; AF319173; AAK84073.1; -.

DR HSSP; P13987; 1CDS.

DR MGD; MGI:1919623; Peca.

DR GO; GO:0005615; C:extracellular space; TAS.

DR GO; GO:0016020; C:membrane; TAS.

DR InterPro; IPR003632; Ly-6_CD59.

DR InterPro; IPR001526; Ly6_UPAR.

DR Pfam; PF00021; UPAR_Ly6; 1.

DR ProDom; PD003128; Ly-6_CD59; 1.

DR SMART; SM00134; LU; 1.

DR PROSITE; PS00983; Ly6_UPAR; UNKNOWN 1.

SQ SEQUENCE 123 AA; 13477 MW; 67A8566F3D30797A CRC64;

Query Match 23.3%; Score 130.5; DB 2; Length 123;

Best Local Similarity 31.4%; Pred. No. 9.6e-06;

Matches 32; Conservative 16; Mismatches 29; Indels 25; Gaps 5;

QY	9	LLLVAWSMCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTT-----LVTVEAEP 62
Db	7	LLLATYALHPGAALQCYCTAQNWRDCLNVQNCSDHQSCFTRIRALGLVT-----60
QY	63	FNQSPVVTRSCSSCVATDPDS-----IGAHLIFCCFRDLN 100
Db	61	-----VSKGCSQC-----EDDSENYILGKKN-ITCCYSDLN 93
RESULT 8		
ID	Q6UW92	PRELIMINARY; PRT; 119 AA.
AC	Q6UW92;	
DT	05-JUL-2004	(TrEMBLrel. 27, Created)
DT	05-JUL-2004	(TrEMBLrel. 27, Last sequence update)
DE	05-JUL-2004	(TrEMBLrel. 27, Last annotation update)
GN	Prostate stem cell A (Fragment).	
OS	ORFNames=UNQ206;	
OS	Homo sapiens (Human).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
OX	NCBI_TaxID=9606;	
RN	[1]	
RP	SEQUENCE FROM N.A.	
RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;	
RA	Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,	
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,	
RA	Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,	
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,	
RA	Lewis L., Liao D., Mark M., Robble E., Sanchez C., Schoenfeld J.,	
RA	Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,	
RA	Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.H., Yansura D.,	
RA	Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,	
RA	Godowski P.;	
RT	"The secreted protein discovery initiative (SPDI), a large-scale	
RT	effort to identify novel human secreted and transmembrane proteins: a	
RT	bioinformatics assessment.";	
RL	Genome Res. 13:2265-2270(2003).	
DR	EMBL; AY358912; AAQ89271.1; -.	
DR	InterPro; IPR001526; LY6_UPAR.	
DR	Pfam; PF00021; UPAR_LY6; 1.	
DR	SMART; SM00134; LU; 1.	
FT	NON TER 1	
SQ	SEQUENCE 119 AA; 12482 MW; 45FF1DAC0F80168E CRC64;	
Query Match 21.9%; Score 122.5; DB 2; Length 119;		
Best Local Similarity 29.3%; Pred. No. 6.2e-05;		
Matches 27; Conservative 14; Mismatches 46; Indels 5; Gaps 1;		
QY	10	LLLVAWSMCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLLTVEAEPFNQSPV 69
Db	4	LLMAGLALQGTALLCYCKAQVSNEDCLQVENCITQLGECQWTARIRA-----VGLLTVI 58
QY	70	TRSCSSCVATDPDSIGAHLIFCCFRDLNCS 101
Db	59	SKGCSLNCVDDSDQDYVVGKKNITCCDTDLN 90
RESULT 9		
ID	PSCA HUMAN	STANDARD; PRT; 123 AA.
AC	O43653;	
DT	16-OCT-2001	(Rel. 40, Created)
DT	16-OCT-2001	(Rel. 40, Last sequence update)
DT	25-JAN-2005	(Rel. 46, Last annotation update)
DE	Prostate stem cell antigen precursor.	
GN	Name=PSCA;	
OS	Homo sapiens (Human).	
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
OX	NCBI_TaxID=9606;	
RN	[1]	
RP	SEQUENCE FROM N.A.	
RC	TISSUE=Prostatic carcinoma;	
RX	MEDLINE=98132661; PubMed=945086; DOI=10.1073/pnas.95.4.1735;	
RA	Reiter R.E., Gu Z., Watabe T., Thomas G., Szigeti K., Davis E.,	
RA	Wahl M., Nisitani S., Yamashiro J., le Beau M.M., Iosa M., Witte O.N.;	
RT	"Prostate stem cell antigen: a cell surface marker overexpressed in	
RT	prostate cancer.";	
RL	Proc. Natl. Acad. Sci. U.S.A. 95:1735-1740(1998).	
RN	[2]	
RP	SEQUENCE FROM N.A.	
RC	TISSUE=Urothelial;	
RA	Bahrenberg G., Joost H.G.;	
RT	"Serial analysis of the gene expression of a highly differentiated	
RT	urothelial tumor.";	
RL	Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.	
RN	[3]	
RP	SEQUENCE OF 21-35.	
RX	PubMed=15340161; DOI=10.1110/ps.04682504;	
RA	Zhang Z., Henzel W.J.;	
RT	"Signal peptide prediction based on analysis of experimentally	
RT	verified cleavage sites.";	
RL	Protein Sci. 13:2819-2824(2004).	
RN	[4]	
RP	TISSUE SPECIFICITY	
RX	MEDLINE=20180504; PubMed=10713670; DOI=10.1038/sj.onc.1203426;	
RA	Gu Z., Thomas G., Yamashiro J., Shintaku I.P., Dorey F., Raitano A.,	
RA	Witte O.N., Said J.W., Loda M., Reiter R.E.;	
RT	"Prostate stem cell antigen (PSCA) expression increases with high	
RT	gleason score, advanced stage and bone metastasis in prostate	
RT	cancer.";	
RL	Oncogene 19:1288-1296(2000).	
CC	-1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.	
CC	-1- TISSUE SPECIFICITY: Highly expressed in prostate (basal, secretory	
CC	and neuroendocrine epithelium cells). Also found in bladder	
CC	(transitional epithelium), placenta (trophoblasts), stomach	
CC	(neuroendocrine cells), colon (neuroendocrine cells) and kidney	
CC	(collecting ducts). Overexpressed in prostate cancers and	
CC	expression is correlated with tumor stage, grade and androgen-	
CC	independence. Highly expressed in prostate cancer bone metastases.	
CC	-1- SIMILARITY: Contains 1 UPAR/Ly6 domain.	
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration	
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -	
CC	the European Bioinformatics Institute. There are no restrictions on its	
CC	use by non-profit institutions as long as its content is in no way	
CC	modified and this statement is not removed. Usage by and for commercial	
CC	entities requires a license agreement (See http://www.isb-sib.ch/announce/	
CC	or send an email to license@isb-sib.ch).	
DR	EMBL; AF043498; AAC39607.1; -.	
DR	EMBL; AJ297436; CAB97347.1; -.	
DR	Genew; HGNC:9500; PSCA.	
DR	MIM; 602470; -.	
DR	GO; GO:0005886; C:plasma membrane; TAS.	
DR	InterPro; IPR003632; Ly-6 CD59.	
DR	InterPro; IPR001526; LY6_UPAR.	
DR	Pfam; PF00021; UPAR_LY6; 1.	
DR	SMART; SM00134; LU; 1.	
DR	PROSITE; PS00983; LY6_UPAR; FALSE NEG.	
KW	Antigen; Direct protein sequencing; Glycoprotein; GPI-anchor;	
KW	Lipoprotein; Membrane; Signal.	
FT	SIGNAL 1 20	
FT	CHAIN 21 95	
FT	PROPEP 96 123	
FT	DOMAIN 21 95	
FT	DISULFID 23 48	
FT	DISULFID 26 35	
FT	DISULFID 41 66	
FT	DISULFID 70 86	
FT	DISULFID 87 92	
FT	DISULFID 40 40	
FT	CARBOHYD 83 83	
FT	CARBOHYD 93 93	
FT	LIPID 95 95	
FT	Prostate stem cell antigen.	
FT	Removed in mature form (Potential).	
FT	UPAR/Ly6.	
FT	By similarity.	
FT	By similarity.	
FT	By similarity.	
FT	By similarity.	
FT	By similarity.	
FT	N-linked (GlcNAc...) (Potential).	
FT	N-linked (GlcNAc...) (Potential).	
FT	N-linked (GlcNAc...) (Potential).	
FT	GPI-anchor amidated serine (Potential).	

SQ	SEQUENCE	123 AA; 12912 MW; 3FC1271742D657FA CRC64;	
	Query Match	21.9%; Score 122.5; DB 1; Length 123;	
	Best Local Similarity	29.3%; Pred. No. 6.4e-05;	
	Matches	27; Conservative 14; Mismatches 46; Indels 5; Gaps 1;	
QY	10	LLVAWSMGCEALKCYCKEPTMTSASCRITTRCKPEDTACMTTLTVVEAEYFPNQSPVV 69	
Db	8	LLMAGLALQGTALLCYCKAQVSNEDCLQVNCITQLGEOCWITARIFA-----VGLITVI 62	
QY	70	TRSCSSCVATDPDSGAHLIFCCFRDLNS 101	
Db	63	SKGCSLNCVDDSDQYVYGKKNITCCDIDLNA 94	
RESULT 10			
Q8R155			
ID	Q8R155	PRELIMINARY; PRT; 124 AA.	
AC	Q8R155;		
DT	01-JUN-2002 (TrEMBLrel. 21, Created)		
DT	01-JUN-2002 (TrEMBLrel. 21, Last sequence update)		
DE	01-MAR-2004 (TrEMBLrel. 26, Last annotation update)		
DE	CDNA sequence BC025446.		
GN	Name=BC025446;		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=FVB/N; TISSUE=Liver;		
RC	MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;		
RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,		
RA	Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,		
RA	Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,		
RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,		
RA	Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,		
RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,		
RA	Raba S., Loquellano N.A., Peters G.J., Carminci P., Prange C.,		
RA	Bosak S.A., McEwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.,		
RA	Richardson D.K., Muzny K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,		
RA	Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,		
RA	Fahy J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,		
RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,		
RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,		
RA	Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,		
RA	Krzywinski M.I., Skalska J., Schmutz J., Myers R.M., Butterfield Y.S.,		
RA	Jones S.J., Marra M.A.		
RT	"Generation and initial analysis of more than 15,000 full-length human		
RT	and mouse cDNA sequences."		
RL	Proc. Natl. Acad. Sci. U.S.A. 99:16999-16903 (2002).		
RN	[2]		
RP	SEQUENCE FROM N.A.		
RC	STRAIN=FVB/N; TISSUE=Liver;		
RC	Strausberg R.		
RL	Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.		
DR	EMBL; BC025446; AAH25446.1; -		
DR	MGD; MGI:2385015; BC025446.		
DR	InterPro; IPR003632; LY-6_CD59.		
DR	InterPro; IPR001526; LY6 UPAR.		
DR	Pfam; PF00021; UPAR LY6; 1.		
DR	ProDom; PD003128; LY-6_CD59; 1.		
DR	SMART; SM00134; LU; 1.		
DR	PROSITE; PS00983; LY6 UPAR; 1.		
SQ	SEQUENCE	124 AA; 13401 MW; C53338BD584177B0 CRC64;	
	Query Match	20.3%; Score 113.5; DB 2; Length 124;	
	Best Local Similarity	33.6%; Pred. No. 0.00055;	
	Matches	36; Conservative 15; Mismatches 43; Indels 13; Gaps 6;	
QY	2	ASRWAVOLLVAWSMGCEALKCYCKEPTMTSASCRITTRCKPEDTACMTTLTVVEAEY 61	

Bothwell A.L.M., Pace P.E., Leclair K.P.;
"Isolation and expression of an IFN-responsive Ly-6C chromosomal
gene.";
J. Immunol. 140:2815-2820(1988).
- - - SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
- - - SIMILARITY: Contains 1 UPAR/Ly6 domain.

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or send an email to license@isb-sib.ch).

EMBL; M18466; AAA39466.1; -;
EMBL; M21734; AAA39469.1; -;
EMBL; M21771; AAA39469.1; JOINED.
EMBL; M21733; AAA39469.1; JOINED.
PIR; I56012; I56012.
DR MGD; MGI:96882; Ly6C.
GO; GO:0009897; C:external side of plasma membrane; IDA.
InterPro; IPR001526; Ly6 UPAR.
Pfam; PF00021; UPAR_Ly6; 1.
SMART; SM00134; LU; 1.
DR PROSITE; PS00983; Ly6 UPAR; 1.
Antigen; Direct protein sequencing; GPI-anchor; Lipoprotein; Membrane;
KW Multigene family; Polymorphism; Signal.
DR SIGNAL 1 26
FT CHAIN 27 109 Lymphocyte antigen Ly-6C.
FT FT Removed in mature form (Potential).
FT PROPEP 110 131 UPAR/Ly6
FT DOMAIN 27 116
FT DISULFID 29 53 By similarity.
FT DISULFID 32 41 By similarity.
FT DISULFID 46 74 By similarity.
FT DISULFID 78 95 By similarity.
FT DISULFID 96 101 By similarity.
FT LIPID 109 109 GPI-anchor amidated glycine (Potential).
FT VARIANT 85 85 K -> R (in Ly-6C.1).
FT VARIANT 126 126 I -> V (in Ly-6C.1).
SQ SEQUENCE 131 AA; 14090 MW; EB8B9DA9C7EE2C51 CRC64;

Query Match 19.8%; Score 111; DB 1; Length 131;
Best Local Similarity 29.8%; Pred. No. 0.001;
Matches 31; Conservative 14; Mismatches 49; Indels 10; Gaps 4;

Qy 2 ASRWAVQLLLVAWSMGCGEALCKYCTCKEPMTSASCRITITRCKPDTACMTTLVTVEAEY 61
Db 6 ATKSCLLILVALLCAGRAQLQCYECYGVPIETSCPAVT-CRASDGFCAIA--NIELIE 62
Qy 62 PFNQSPVTRSCSSCVA---TDPDSIGNAHLIFCCFRLDCLNS 101
Db 63 DSQRRKLKTRQCLSFPCAGVPIKPN---IRERTSCSDELCLNA 103

RESULT 13
Q8C2D8 PRELIMINARY; PRT; 131 AA.
ID AC Q8C2D8
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Mus musculus 2 days neonate thymus thymic cells cDNA, RIKEN full-
length enriched library, clone:843025N24 product:lymphocyte antigen 6
DE complex, locus C, full insert sequence.
DE Name=Ly6c;
GN Mus musculus (Mouse).
OS Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
ON NCBI_taxid=10090;
RX SEQUENCE FROM N.A.
RC STRAIN=NOD; TISSUE=Thymus;
QY 7 VOLLVAWSMGCGEALCKYCTCKEPMTSASCRITITRCKPDTACMTTLVTVEAEYFNQS 66
Query Match 19.6%; Score 110; DB 2; Length 131;
Best Local Similarity 31.3%; Pred. No. 0.0013;
Matches 31; Conservative 11; Mismatches 47; Indels 10; Gaps 4
RC STRAIN=NOD; TISSUE=Thymus;

Db 11 VLILLVALLCAGRAQGLQCYGVPIETSCPAVT-CRASDGFCAIQ--NIELIEDSQRR 67
QY 67 PVVTRSCSSCVA-----TDPDSIGAHLIFCCFRDLNCS 101
Db 68 KLKTRQCLSPCPAGVPIRDN-----IRERTSCSSEDLNCA 103

RESULT 14
CD59 RAT
ID_CD59 RAT STANDARD; PRT; 126 AA.
AC P27274;
DT 01-AUG-1992 (Rel. 23, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE CD59 glycoprotein precursor (Membrane attack complex inhibition factor) (MACIF) (MAC-inhibitory protein) (MAC-IP) (Protectin).
GN Name=CD59;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 23-64.
RC STRAIN=Sprague-Dawley; TISSUE=Kidney;
RX MEDLINE=95091697; PubMed=7528012;
RA Rushmere N.K., Harrison R.A., van den Berg C.W., Morgan B.P.;
RT "Molecular cloning of the rat analogue of human CD59: structural comparison with human CD59 and identification of a putative active site."
RT Biochem. J. 304:595-601(1994).
RL [2]
RP SEQUENCE OF 23-37.
RC TISSUE=Erythrocyte;
RX MEDLINE=92286999; PubMed=1376109;
RA Hughes T.R., Fiddlesden S.J., Williams J.D., Harrison R.A., Morgan B.P.;
RT "Isolation and characterization of a membrane protein from rat erythrocytes which inhibits lysis by the membrane attack complex of rat complement."
RT Biochem. J. 284:169-176(1992).
RL
CC -!- FUNCTION: Potent inhibitor of the complement membrane attack complex (MAC) action. Acts at or after the C5b-8 stage of MAC assembly.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- PTM: N-glycosylated.
CC -!- SIMILARITY: Contains 1 UPAR/Ly6 domain.

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EMBL; U48255; AAA88909.1; -.
DR PIR; S53340; S53340.
DR HSP; P13987; IERG.
DR RGB; 2311; CD59.
DR InterPro; IPR003632; Ly-6 CD59.
DR InterPro; IPR001526; Ly6 UPAR.
DR Pfam; PF00021; UPAR_Ly6_1.
DR ProDom; PD003128; Ly-6_CD59; 1.
DR SMART; SM00134; LU; 1.
DR PROSITE; PS00983; Ly6 UPAR; 1.
KW Antigen; Direct protein sequencing; Glycoprotein; GPI-anchor; Lipoprotein; Signal.
FT SIGNAL 1 22
FT CHAIN 23 101 CD59 glycoprotein.
FT PROPEP 102 126 Removed in mature form (By similarity).
FT LIPID 101 101 GPI-anchor amidated asparagine (By similarity).
FT DOMAIN 23 110 UPAR/Ly6.

FT DISULFID 25 48 By similarity.
FT DISULFID 28 35 By similarity.
FT DISULFID 41 61 By similarity.
FT DISULFID 67 85 By similarity.
FT DISULFID 86 91 By similarity.
FT CARBOHYD 38 28 N-linked (GlcNAc...) (Potential).
SQ SEQUENCE 126 AA; 13790 MM; 54B9CS9AB2073005 CRC64;
Query Match 19.3%; Score 108; DB 1; Length 126;
Best Local Similarity 30.7%; Pred. No. 0.002;
Matches 31; Conservative 20; Mismatches 40; Indels 10; Gaps 5;
QY 1 MASRWAVQVLLLVANSMGCEALKCYTCKEPMTSASCRITTRCKPBDTACMTTLVTVEAE 60
Db 1 MEARRGFILLLLVLCVSTGSLRVCYNCLDPV--SSCKTNSTCSPNLDAC---LVAVSGK 55
QY 61 YPFNOSPVVTRSCSSCVATDPDSIGAHLIF-CCFRDLN 100
Db 56 QVYQCWRFS-DCNAKFIILS---RLRIANVQYRCQADLCN 92

RESULT 15
CD59 HUMAN
ID_CD59 HUMAN STANDARD; PRT; 128 AA.
AC P13987;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-JAN-1990 (Rel. 13, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE CD59 glycoprotein precursor (Membrane attack complex inhibition factor) (MACIF) (MAC-inhibitory protein) (MAC-IP) (MEM43 antigen) (Protectin) (Membrane inhibitor of reactive lysis) (MIRL) (20 kDa homologous restriction factor) (HRF-20) (HRF20) (1P5 antigen).
GN Name=CD59;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=T-cell;
RX MEDLINE=89316238; PubMed=2475570;
RA Davies A., Simmons D.L., Hale G., Harrison R.A., Tighe H., Lachmann P.J., Waldmann H.;
RT "CD59, an LY-6-like protein expressed in human lymphoid cells, regulates the action of the complement membrane attack complex on homologous cells."
RT J. Exp. Med. 170:637-654(1989).
RL [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=90168959; PubMed=1689664;
RA Philbrick W.M., Palfrey R.G.E., Roger G.E., Maher S.E., Bridgett M.M., Sirlin S., Bothwell A.L.M.;
RT "The CD59 antigen is a structural homologue of murine Ly-6 antigens but lacks interferon inducibility."
RT Eur. J. Immunol. 20:87-92(1990).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=89350983; PubMed=2475111;
RA Okada H., Nagami Y., Takahashi K., Okada N., Hideshima T., Takizawa H., Kondo J.;
RT "20 kDa homologous restriction factor of complement resembles T cell activating protein."
RT Biochem. Biophys. Res. Commun. 162:1553-1559(1989).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=90110046; PubMed=2608909;
RA Sugita Y., Tobe T., Oda E., Tomita M., Yasukawa K., Yamaji N., Takemoto T., Furuichi K., Takayama M., Yano S.;
RT "Molecular cloning and characterization of MACIF, an inhibitor of membrane channel formation of complement."
RL J. Biochem. 106:555-557(1989).
RN [5]
RP SEQUENCE FROM N.A.

RX MEDLINE=90253615; PubMed=1692709;
 RA Sawada R., Ohashi K., Anaguchi H., Okazaki H., Hattori M., Minato N.,
 RA Naruto M.;
 RT "Isolation and expression of the full-length cDNA encoding CD59
 RT antigen of human lymphocytes.";
 RL DNA Cell Biol. 9:213-220(1990).
 RN [6]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92390353; PubMed=1381503;
 RA Petranks J.G., Fienor D.E., Sykes K., Kaufman R.E., Rosse W.F.;
 RT "Structure of the CD59-encoding gene: further evidence of a
 RT relationship to murine lymphocyte antigen Ly-6 protein.";
 RL Proc. Natl. Acad. Sci. U.S.A. 89:7876-7879(1992).
 RN [7]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Blood;
 RA MEDLINE=93021133; PubMed=1383553;
 RT "Gene structure of human CD59 and demonstration that discrete mRNAs
 RT are generated by alternative polyadenylation.";
 RL J. Mol. Biol. 227:971-976(1992).
 RN [8]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Colon;
 RA MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heide F.,
 RA Datchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S.C., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny K.C., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grinnwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Small D.B.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 RT and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [9]
 RP SEQUENCE OF 27-128 FROM N.A.
 RX MEDLINE=89386002; PubMed=2476718;
 RA Sawada R., Ohashi K., Okano K., Hattori M., Minato N., Naruto M.;
 RT "Complementary DNA sequence and deduced peptide sequence for CD59/MEM-
 RT 43 antigen, the human homologue of murine lymphocyte antigen Ly-6C.";
 RL Nucleic Acids Res. 17:6728-6728(1989).
 RN [10]
 RP GPI-ANCHOR, AND DISULFIDE BONDS.
 RX MEDLINE=94103166; PubMed=8276756;
 RA Sugita Y., Nakano Y., Oda E., Noda K., Tobe T., Miura N.H., Tomita M.;
 RT "Determination of carboxyl-terminal residue and disulfide bonds of
 RT MAC1F (CD59), a glycosyl-phosphatidylinositol-anchored membrane
 RT protein.";
 RL J. Biochem. 114:473-477(1993).
 RN [11]
 RP BINDING STUDIES.
 RX MEDLINE=92317101; PubMed=1377690;
 RA Ninomiya H., Sims P.J.;
 RT "The human complement regulatory protein CD59 binds to the alpha-chain
 RT of C8 and to the 'b' domain of C9.";
 RL J. Biol. Chem. 267:13675-13680(1992).
 RN [12]
 RP MUTATIONAL ANALYSIS.
 RX MEDLINE=97188784; PubMed=9053451;
 RA Bodian D.L., Davis S.J., Morgan B.P., Rushmore N.K.;
 RT "Mutational analysis of the active site and antibody epitopes of the
 RT complement-inhibitory glycoprotein, CD59.";
 RL J. Biol. Chem. 267:13675-13680(1992).
 RN [13]
 RP IDENTIFICATION OF COMPLEMENT INHIBITORY DOMAIN.
 RX MEDLINE=97383147; PubMed=9235986; DOI=10.1021/bi970832i;
 RA Yu J., Dong S., Rushmore N.K., Morgan B.P., Abagyan R., Tomlinson S.;
 RT "Mapping the regions of the complement inhibitor CD59 responsible for
 RT its species selective activity.";
 RL Biochemistry 36:9423-9428(1997).
 RN [14]
 RP STRUCTURE OF CARBOHYDRATES AND GPI-ANCHOR, AND SEQUENCE OF N-TERMINUS.
 RX MEDLINE=97207284; PubMed=9054419; DOI=10.1074/jbc.272.11.7229;
 RA Rudd P.M., Morgan B.P., Wormald M.R., Harvey D.J., van den Berg C.W.,
 RA Davis S.J., Ferguson M.A., Dwek R.A.;
 RT "The glycosylation of the complement regulatory protein, human
 RT erythrocyte CD59.";
 RL J. Biol. Chem. 272:7229-7244(1997).
 RN [15]
 RP INHIBITION BY GLYCATION, AND MUTAGENESIS OF LYS-66 AND HIS-69.
 RX MEDLINE=20266386; PubMed=10805801; DOI=10.1073/pnas.97.10.5450;
 RA Acosta J., Hettlinga J., Flueckiger R., Krumrei N., Goldfine A.,
 RA Angarita L., Halperin J.;
 RT "Molecular basis for a link between complement and the vascular
 RT complications of diabetes.";
 RL Proc. Natl. Acad. Sci. U.S.A. 97:5450-5455(2000).
 RN [16]
 RP STRUCTURE BY NMR OF 26-95.
 RX MEDLINE=94213818; PubMed=7512825;
 RA Kieffer B., Driscoll P.C., Campbell I.D., Willis A.C.,
 RA van der Merwe P.A., Davis S.J.;
 RT "Three-dimensional solution structure of the extracellular region of
 RT the complement regulatory protein CD59, a new cell-surface protein
 RT domain related to snake venom neurotoxins.";
 RL Biochemistry 33:4471-4482(1994).
 RN [17]
 RP STRUCTURE BY NMR OF 26-102.
 RX TISSUE=Urine;
 RA MEDLINE=94348877; PubMed=7520819;
 RA Fletcher C.M., Harrison R.A., Lachmann P.J., Neuhaus D.;
 RT "Structure of a soluble, glycosylated form of the human complement
 RT regulatory protein CD59.";
 RL Structure 2:185-199(1994).
 CC -!- FUNCTION: Potent inhibitor of the complement membrane attack
 CC complex (MAC) action. Acts by binding to the C8 and/or C9
 CC components of the assembling MAC, thereby preventing
 CC incorporation of the multiple copies of C9 required for complete
 CC formation of the osmolytic pore. This inhibitor appears to be
 CC species-specific. Involved in signal transduction for T-cell
 CC activation complexed to a protein tyrosine kinase. Interacts with
 CC T-cell surface antigen CD2.
 CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
 CC -!- PTM: N- and O-glycosylated. The N-glycosylation mainly consists of
 CC a family of bi-antennary complex-type structures with and without
 CC lactosamine extensions and outer arm fucose residues. The
 CC predominant O-glycans are mono-sialylated forms of the
 CC disaccharide, Gal-beta-1,3GalNAc, and their sites of attachment
 CC are probably on Thr-76 and Thr-77.
 CC -!- PTM: Glycated. Glycation is found in diabetic subjects, but only
 CC at minimal levels in nondiabetic subjects. Glycated CD59 lacks
 CC MAC-inhibitory function and confers to vascular complications of
 CC diabetes.
 CC -!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
 CC -!- DATABASE: NAME=PROW; NOTE=CD guide CD59 entry;
 CC WWW="http://www.ncbi.nlm.nih.gov/prov/cd/cd59.htm".
 CC -----
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 CC -----
 CC EMBL; M27909; AAA60543.1; -.

DR EMBL; M95708; AAA60957.1; --
DR EMBL; X16447; CAA34467.1; --
DR EMBL; X17198; CAA35059.1; --
DR EMBL; M34671; AAA51952.1; --
Query Match 19.3%; Score 108; DB 1; Length 128;
Best Local Similarity 29.6%; Pred. No. 0.0021;
Matches 29; Conservative 13; Mismatches 36; Indels 20; Gaps 4;
QY 9 LLLVAWSMCGEALCKYCKEPMWTSASCTITRCKPEDTACMTTLVTVEAE---YPF-- 63
DB 12 LLLVAVFCHSGHSLOQYCNPF--TADCKTAVNCSDFDACLITRAGLQVYNKCKFEH 69
QY 64 -NOSPVTTRSCSSCVATDPDSIGAAHLIFCCFRDLN 100
DB 70 CNFNDVTRLRNELLT-----YYCKCKDLN 95
RESULT 16
Q9CQ11 PRELIMINARY; PRT; 111 AA.
AC Q9CQ11;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
DE Mus musculus adult male colon cDNA, RIKEN full-length enriched
DE library, clone:9030613J04 product:hypothetical CD59 antigen containing
DE protein, full insert sequence (Mus musculus adult male small intestine
DE cDNA, RIKEN full-length enriched library, clone:2010109103
DE product:hypothetical CD59 antigen containing protein, full insert
DE sequence).
GN Name=2010109103Rik;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA RIKEN FANTOM Consortium;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RA The FANTOM Consortium,
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
RN [4]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
RA Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K., Itoh M.,
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
RT "Normalization and subtraction of cap-trapper-selected cDNAs to
RT prepare full-length cDNA libraries for rapid discovery of new genes.";
RL Genome Res. 10:1617-1630(2000).
RN [5]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;
RA Shibata K., Itoh M., Aizawa K., Nagaoaka S., Sasaki N., Carninci P.,
RA Konno H., Akiyama J., Nishi K., Kitsuai T., Tashiro H., Itoh M.,
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,
RA Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,
RA Fujiwaki S., Inoue K., Togawa Y., Izawa M., Ohata E., Watahiki M.,
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.;
RT "RIKEN integrated sequence analysis (RISA) system-384-format
RT sequencing pipeline with 384 multicapillary sequencer.";
RL Genome Res. 10:1757-1771(2000).
RN [6]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Colon, and Small intestine;
RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,
RA Hanagaki T., Hara A., Hayatsu N., Hiramoto K., Hiraoka T., Hori F.,
RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Nunazaki R., Ohno M.,
RA Okazaki Y., Okido T., Owa C., Saito H., Saito K., Sakai C., Sakai K.,
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,
RA Tejima Y., Toya T., Yamamura T., Yasunishi A., Yoshida K., Yoshino M.,
RA Muramatsu M., Hayashizaki Y.;
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK018552; BAB31271.1; --
DR EMBL; AK008365; BAB25630.1; --
DR HSSP; P81782; 1F94.
DR MGD; MGI:1914288; 2010109103Rik.
DR GO; GO:0005615; C:extracellular space; TAS.
DR InterPro; IPR001526; LV6 UPAR.
DR InterPro; IPR003571; Snake_toxin.
DR Pfam; PF00021; UPAR_LY6; 1.
DR ProDom; PD000206; Snake_toxin; 1.
DR SMART; SM00134; IU; 1.
DR Hypothetical protein.
KW Hypothetical protein.
SQ SEQUENCE 111 AA; 12280 MW; DB0138AE7094D321 CRC64;
Query Match 19.1%; Score 107; DB 2; Length 111;
Best Local Similarity 28.9%; Pred. No. 0.0023;
Matches 28; Conservative 14; Mismatches 41; Indels 14; Gaps 4;
QY 5 WAVOLLVLAWSMCGEALCKYCKEPMWTSASCTITRCKPEDTACMTTLVTVEAEYFPN 64
DB 7 WLLPLILIGS-----SAQALKKCHES---GIEDCYKPKTCSQSLYCLTNWYT-----PPG 54
QY 65 QSPVTRSCSSCVATDPDSIGAAHLIFCCFRDLN 101
DB 55 QQTVTTKATC--PDINHVTANSKSCNTDLN 89
RESULT 17
LY6E CHICK STANDARD; PRT; 126 AA.
ID LY6E CHICK
AC Q90986;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Lymphocyte antigen Ly-6E precursor (stem cell antigen 2) (SCA-2).
GN Name=LY6E; Synonym=SCA2;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Bone marrow;
RX MEDLINE=98007656; PubMed=9349500; DOI=10.1038/sj.onc.1201334;
RA Petrenko O., Ischenko I., Enrietto P.J.;
RT "Characterization of changes in gene expression associated with
RT malignant transformation by the NF-kappaB family member, v-Rel.";
RL Oncogene 15:1671-1680(1997).
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
CC similarity)

```
CC -!- TISSUE SPECIFICITY: Expressed by thymic blast cells.
CC -!- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: L34554; AAA49063.1; --
CC InterPro: IPR003632; Ly-6 CD59.
CC InterPro: IPR001526; Ly6 UPAR.
CC Pfam: PF00021; UPAR_Ly6; 1.
CC SMART: SM00134; LU; 1.
CC PROSITE: PS00983; Ly6 UPAR; FALSE NEG.
KW Antigen; GPI-anchor; Lipoprotein; Membrane; Multigene family; Signal.
FT SIGNAL 1 20 Potential.
FT CHAIN 21 ?98 Lymphocyte antigen Ly-6F.
FT PROPEP ?99 126 Removed in mature form (By similarity).
FT DOMAIN 21 98 UPAR/Ly6.
FT DISULFID 23 48 By similarity.
FT DISULFID 26 35 By similarity.
FT DISULFID 41 69 By similarity.
FT DISULFID 73 89 By similarity.
FT DISULFID 90 95 By similarity.
FT CARBOHYD 96 96 N-linked (GlcNAc.. ) (Potential).
FT LIPID 98 98 GPI-anchor amidated serine (Potential).
SQ SEQUENCE 126 AA; 13011 MW; EB5C89E6674C73B8 CRC64;

Query Match 18.8%; Score 105; DB 1; Length 126;
Best Local Similarity 27.5%; Pred. No. 0.0042;
Matches 25; Conservative 18; Mismatches 46; Indels 2; Gaps 1;

QY 10 LLVAWSMGCGEALKCYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAYFPNQSPVW 69
Db 8 VLAAVLVERAHTLIFCSCDASSNWACLTVPKCAENEHCVTTVGVGIGKSGQS--I 65
QY 70 TRSCSSCVATDPDSIGAAHLIFCCFRDLN 100
Db 66 SKGCSVPVCAGINLGLIAAASVYCCDSFLCN 96

RESULT 18
Q68F57 PRELIMINARY; PRT; 261 AA.
AC Q68F57;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Lymphocyte antigen Ly-6F precursor (Retinoic acid-induced gene B
DE protein) (RIG-E) (Thymic shared antigen-1) (TSA-1) (Stem cell antigen
DE 2) (SCA-2).
GN Name=MGC81574;
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
OC Xenopodinae; Xenopus.
OX NCBI_TaxID=8355;
RN [1]_
RP SEQUENCE FROM N.A.
RC TISSUE=Embryo;
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;
RA Klein S.L., Straube R.L., Wagner L., Pontius J., Clifton S.W.,
RA Richardson P.;
RA "Genetic and genomic tools for Xenopus research: The NIH Xenopus
RT initiative.";
RL Dev. Dyn. 225:384-391(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Embryo;
RX PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA
```

shared Ag-1/stem cell Ag-2: a new member of the human Ly-6 family.";
J. Immunol. 157:969-973(1996).
[3]
SEQUENCE FROM N.A.
RP TISSUE=Monocytes;
RC MEDLINE=98211698; PubMed=9551972;
RA Shan X., Bourdeau A., Rhoton A., Wells D.E., Cohen E.H.,
RA Landgraf B.E., Palfrey R.G.E.;
RT "Characterization and mapping to human chromosome 8q24.3 of Ly-6-
RT related gene 9804 encoding an apparent homologue of mouse TSA-1.";
RT J. Immunol. 160:197-208(1998).
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By
CC similarity).
CC -1- TISSUE SPECIFICITY: Widely expressed, predominantly in liver,
CC kidney, ovary, spleen and peripheral blood leukocytes.
CC -1- INDUCTION: By retinoic acid, in promyelocytic leukemia NB4 and in
CC myeloblast HL-60 cell lines. Activated by IFN-alpha in monocytic
CC cell line U-937 and in peripheral blood monocyte cells.
CC -1- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL; U42376; AAC50519.1; -;
DR EMBL; U56145; AAC50616.1; -;
DR EMBL; U66711; AAB07513.1; -;
DR EMBL; Z68179; CAA92321.1; -;
DR Genew; HGNC:6727; LY6E.
DR MIM; 601384; -;
DR GO; GO:0005887; C:integral to plasma membrane; TAS.
DR GO; GO:0007166; P:cell surface receptor linked signal transdu. .; TAS.
DR InterPro; IPR003632; Ly-6 CD59.
DR InterPro; IPR001526; LY6 UPAR.
DR Pfam; PF00021; UPAR_Ly6; 1.
DR SMART; SM00134; LU; 1.
DR PROSITE; PS00983; LY6 UPAR; FALSE NEG.
KW Antigen; GPI-anchor; Lipoprotein; Membrane; Multigene family; Signal.
FT SIGNAL 1 20 Potential.
FT CHAIN 21 101 Lymphocyte antigen Ly-6E.
FT PROPEP 102 131 Removed in mature form (Potential).
FT DOMAIN 21 101 UPAR/Ly6.
FT DISULFID 23 48 By similarity.
FT DISULFID 26 35 By similarity.
FT DISULFID 41 71 By similarity.
FT DISULFID 75 92 By similarity.
FT DISULFID 93 98 By similarity.
FT CARBOHYD 99 99 N-linked (GlcNAc...) (Potential).
FT LIPID 101 101 GPI-anchor amidated serine (Potential).
SQ SEQUENCE 131 AA; 13507 MW; 0F6D1157741AFC98 CRC64;

Query Match 18.3%; Score 102.5; DB 1; Length 131;
Best Local Similarity 27.7%; Pred. No. 0.0079;
Matches 28; Conservative 18; Mismatches 38; Indels 17; Gaps 4;
QY 9 LLLVAWSMGCCEALKCYCKEPTMTSASCRITTRCKPEDTACMT-----TLVTVEAE 60
Db 7 VLLAALLGVERASSLMCFSLNQRKSNLYLCKPTICSDQDNVCVTVSASAGINLV----- 62
QY 61 YPFNQSPVTVTRSCSSCVATPDSIGAAHL-IFCCFRDLN 100
Db 63 --FGHS--LSKTCSPACPIPEGVNVGVASMGISCCQSPFLN 99
RESULT 20
Q91XG0
ID Q91XG0 PRELIMINARY; PRT; 131 AA.
AC Q91XG0;
DT 01-DEC-2001 (TrEMBLrel. 19, Created)

01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Ly6c protein.
GN Names=Ly6c;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Kidney;
RC MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uesdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Maman A., Rodrigues S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Kidney;
RA Strausberg R.;
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC010764; AAH10764.1; -;
DR MGD; MGI:96882; Ly6c.
DR GO; GO:0009897; C:external side of plasma membrane; IDA.
DR GO; GO:0005615; C:extracellular space; TAS.
DR Pfam; PF00021; UPAR_Ly6; 1.
DR SMART; SM00134; LU; 1.
DR PROSITE; PS00983; LY6 UPAR; 1.
SQ SEQUENCE 131 AA; 14192 MW; 36DAB8CB8F137CB0 CRC64;

Query Match 18.2%; Score 102; DB 2; Length 131;
Best Local Similarity 30.3%; Pred. No. 0.0088;
Matches 30; Conservative 11; Mismatches 48; Indels 10; Gaps 4;
QY 7 VQLLEVAWSMGCCEALKCYCKEPTMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNQS 66
Db 11 VLILVALLCAERAQGLQCYCYGVPIETSPAVT-CRASDGFCLAQ--NIELIEDSQRR 67
QY 67 PVVTRSCSSCVA-----TDPDSIGAAHLIFCCFRDLNCS 101
Db 68 KLKTRQCLSFPCAGVPVDPN---IRERTSCSSEDLNCA 103
RESULT 21
Q86SR0
ID Q86SR0 PRELIMINARY; PRT; 97 AA.
AC Q86SR0;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE Secreted Ly6/upar related protein 2 (QLGT871).
GN Name=SLURP-2; Synonyms=SLURP2; ORFNames=UNQ871;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]

RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RX MEDLINE=22461583; PubMed=12573258; DOI=10.1016/S0888-7543(02)00025-3;
RA Teuji H., Okamoto K., Matsuzaka Y., Iizuka H., Tamiya G., Inoko H.;
RT "SLURP-2, a novel member of the human Ly-6 superfamily that is up-
RL regulated in psoriasis vulgaris.";
RN Genomics 81:26-33(2003).
[3]
RP SEQUENCE FROM N.A.
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
R Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,
R Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,
R Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
R Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
R Seehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,
R Vandlen R., Watanabe C., Wiedand D., Woods K., Xie M.H., Yansura D.,
R Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
R Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment.";
RL Genome Res. 13:2265-2270(2003).
RN [3]
RP SEQUENCE FROM N.A.
RA Juan A., Sergei G.;
RL Submitted (MAR-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB081838; BAC56859.1; -
DR EMBL; AY358417; AAQ88783.1; -
DR EMBL; AY587277; AAT00512.1; -
DR InterPro; IPR001526; LY6 UPAR.
DR Pfam; PF00021; UPAR_LY6_1.
SQ SEQUENCE 97 AA; 10160 MW; 8179A103EC3001A CRC64;

Query Match 17.9%; Score 100.5; DB 2; Length 97;
Best Local Similarity 30.2%; Pred. No. 0.0093;
Matches 29; Conservative 11; Mismatches 49; Indels 7; Gaps 3;

QY 9 LLLVAAMS--NGCGEALKCYTCCKPEMTSASCTTTRCKPDPETACMTTLVTVEAEYFPNQ 66
DB 7 LLLAAVLSLQAAAEAIWCHQC---TGFGGCGSGSRCLRDSTHCVTATRVLSN--TEDL 61

QY 67 PVVTRSCSSCVATDPDPSIGAHLFFCCFRDLCSNE 102
DB 62 PLVTQKCHIGCPDPSLGLGVPVSIACQTSLCNHD 97

RESULT 22
LY6D_MOUSE
ID LY6D_MOUSE STANDARD; PRT; 127 AA.
AC P35459;
DT 01-JUN-1994 (Rel. 29, Created)
DT 01-JUN-1994 (Rel. 29, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Lymphocyte antigen Ly-6D precursor (Thymocyte B cell antigen) (ThB).
GN Name=Ly6d; Synonyms=Ly6l, Thb;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Thymocytes;
RX MEDLINE=93017863; PubMed=1401899;
RA Gumley T.P., McKenzie I.F., Kozak C.A., Sandrin M.S.;
RT "Isolation and characterization of cDNA clones for the mouse thymocyte
RT B cell antigen (ThB).";
RL J. Immunol. 149:2615-2618(1992).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/c; TISSUE=Leukocyte;
RX MEDLINE=95369850; PubMed=7642235;
RA Gumley T.P., McKenzie I.F., Sandrin M.S.;

RT "sequence and structure of the mouse ThB gene.";
RL Immunogenetics 42:221-224(1995).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=FVB/N; TISSUE=Salivary gland;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner K.H., Shenmen C.M., Bhat N.K.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McSwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahy J., Heiton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalls D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
CC -I- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -I- TISSUE SPECIFICITY: Thymocytes and B cells.
CC -I- SIMILARITY: Contains 1 UPAR/Ly6 domain.
CC -----
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CC -----
DR EMBL; X63782; CAA45317.1; -
DR EMBL; L40419; AAA79249.1; ALT INIT.
DR EMBL; BC025135; AAH25135.1; -
DR PIR; A46528; A46528.
DR MGD; MGI:96881; Ly6d.
DR InterPro; IPR003632; Ly-6_CD59.
DR InterPro; IPR001526; LY6 UPAR.
DR Pfam; PF00021; UPAR_LY6_1.
DR ProDom; PD003128; LY-6_CD59; 1.
DR SMART; SM00134; LU; 1_CD59; 1.
DR PROSITE; PS00983; LY6 UPAR; 1.
DR Antigen; GPI-anchor; Lipoprotein; Membrane; Multigene family; Signal.
FT SIGNAL 1 20 Potential.
FT CHAIN 21 98 Lymphocyte antigen Ly-6D.
FT PROPEP 99 127 Removed in mature form (Potential).
FT DOMAIN 21 108 UPAR/Ly6.
FT DISULFID 23 45 By similarity.
FT DISULFID 26 32 By similarity.
FT DISULFID 38 63 By similarity.
FT DISULFID 67 86 By similarity.
FT DISULFID 87 92 By similarity.
FT LIPID 98 GPI-anchor amidated serine (potential).
SQ SEQUENCE 127 AA; 13395 MW; 0AF039877D105917 CRC64;

Query Match 17.9%; Score 100.5; DB 1; Length 127;
Best Local Similarity 31.4%; Pred. No. 0.012;
Matches 32; Conservative 18; Mismatches 39; Indels 13; Gaps 6;

QY 6 AVQLLLVAAMSGCGEALKCYTCCKPEMTSASCTTTRCKPDPETACMTTLVTVEAEYFPNQ 65
DB 4 ALLVLLVLAATSPAAWLRCVHC---TNSANCKPQVC-PSNFYCKIVTSVE---PLNG 56

QY 66 SPVTRSCSSCVATDPDPSIG----AAHLFFCCFRDLCSNE 103
DB 57 N-LVRKCANSC-TSDYSQQGHVSGSEVTQCCQDLCNRL 96

RESULT 23
LY6D HUMAN STANDARD; PRT; 128 AA.
-ID LY6D HUMAN STANDARD; PRT; 128 AA.
AC Q14210; Q43783; Q8TBD4; Q92933;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 25-JAN-2005 (Rel. 46, Last annotation update)
DE Lymphocyte antigen Ly-6D precursor (E48 antigen).
GN Name=LY6D; Synonyms=E48;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 21-33.
RX MEDLINE=95310346; PubMed=7790363; DOI=10.1093/jcb.129.6.1677;
RA Brakenhoff R.H., van Dijk M., Gerritsen M., Knippels E.M.C., van Dijk M.,
RA van Easen H., Weghuis D.O., Sinke R.J., Snow G.B.,
RA van Dongen G.A.M.S.;
RT "The human E48 antigen, highly homologous to the murine Ly-6 antigen
RT tNB, is a GPI-anchored molecule apparently involved in keratinocyte
RT cell-cell adhesion.";
RL J. Cell Biol. 129:1677-1689(1995).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=98031741; PubMed=9366413;
RA Brakenhoff R.H., van Dijk M., Rood-Knippels E.M.C., Snow G.B.;
RT "A gain of novel tissue specificity in the human Ly-6 gene E48.";
RL J. Immunol. 159:4879-4886(1997).
RN [3]
RP SEQUENCE FROM N.A.
RX TISSUE=Brain;
RC MEDLINE=23288257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Berge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heish F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton K., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ustin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S., Loquellano N.A., Peters G.J., Sherman R.D., Mullaly S.J.,
RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Whiting M., Helton E., Kerttunen M., Madan A., Rodriguez S., Sanchez A.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [4]
RP SEQUENCE OF 18-96 FROM N.A.
RX Shan X., Bourdeau A., Rhoton A., Wells D.E., Cohen E.H.,
RA Landgraf B.E., Palfrey R.G.E.;
RL Submitted (SEP-1996) to the EMBL/GenBank/DBJ databases.
RN [5]
RP SEQUENCE OF 21-35.
RX PubMed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Henzel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
RT verified cleavage sites.";
RL Protein Sci. 13:2819-2824(2004).
RN CC -!- FUNCTION: May be involved in cell-cell adhesion and signal
transduction.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- TISSUE SPECIFICITY: Expressed exclusively at the outer cell
surface of transitional epithelia and the keratinocyte of
stratified squamous epithelia.
CC

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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:48:58 ; Search time 164 Seconds
(without alignments)
242.904 Million cell updates/sec

Title: US-10-826-788-2
Perfect score: 560
Sequence: 1 MASRAVQLLLVAWSMGCG.....SIGAAHLIFCCFRLCNSEL 103

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : A_Geneseq_16Dec04:.*
1: Geneseqp1980s:.*
2: Geneseqp1990s:.*
3: Geneseqp2000s:.*
4: Geneseqp2001s:.*
5: Geneseqp2002s:.*
6: Geneseqp2003as:.*
7: Geneseqp2003bs:.*
8: Geneseqp2004s:.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	560	100.0	103	2	AAR70984 Component
2	560	100.0	103	3	AAB24039 Human PRO
3	560	100.0	103	8	ADN04680 Antipsori
4	560	100.0	103	8	ADQ18711 Human sof
5	518	92.5	95	8	ADG06822 Human SLU
6	444	79.3	81	2	AAW94613 Human LUS
7	212.5	37.9	125	4	AAE03301 Human gen
8	212.5	37.9	125	4	AAE03327 Human gen
9	212.5	37.9	125	5	ABG64428 Human alb
10	212.5	37.9	125	5	ABG64430 Human alb
11	212.5	37.9	125	8	ADL77695 Albumin f
12	212.5	37.9	125	8	ADL77697 Albumin f
13	208.5	37.2	125	3	AAV41756 Human PRO
14	208.5	37.2	125	3	AAE033439 Human PRO
15	208.5	37.2	125	3	AAE03000 Human PRO
16	208.5	37.2	125	3	AAE03439 Human PRO
17	208.5	37.2	125	3	AAE034312 Human PRO
18	208.5	37.2	125	4	AAE034415 Human PRO
19	208.5	37.2	125	5	AAE030915 Human PRO
20	208.5	37.2	125	5	AAE033661 Human PRO
21	208.5	37.2	125	5	ABE04871 Human PRO
22	208.5	37.2	125	5	ABE04871 Human PRO
23	208.5	37.2	125	6	ABE04871 Human PRO
24	208.5	37.2	125	6	ABE04871 Human PRO
25	208.5	37.2	125	6	ABU72264 Novel hum

26	208.5	37.2	125	6	ABU84944	Abu84944 Human sec
27	208.5	37.2	125	6	ABU61142	Abu61142 Human PRO
28	208.5	37.2	125	6	ABU80411	Abu80411 Human sec
29	208.5	37.2	125	6	ABU82117	Abu82117 Novel hum
30	208.5	37.2	125	6	ABJ72297	Abj72297 Human PRO
31	208.5	37.2	125	6	ADA24993	Ada24993 Novel hum
32	208.5	37.2	125	6	ADA19713	Ada19713 Novel hum
33	208.5	37.2	125	6	ADA12654	Ada12654 Human sec
34	208.5	37.2	125	6	ABJ72425	Abj72425 Human PRO
35	208.5	37.2	125	6	ABO34320	AbO34320 Human sec
36	208.5	37.2	125	6	ABO19604	AbO19604 Novel hum
37	208.5	37.2	125	7	ABJ72127	Abj72127 Human mem
38	208.5	37.2	125	7	ABJ83630	Abj83630 Novel hum
39	208.5	37.2	125	7	ADB80736	AdB80736 Novel hum
40	208.5	37.2	125	7	ADB73277	AdB73277 Novel hum
41	208.5	37.2	125	7	ADB78359	AdB78359 Novel hum
42	208.5	37.2	125	7	ADB85007	AdB85007 Human PRO
43	208.5	37.2	125	7	ADB78113	AdB78113 Novel hum
44	208.5	37.2	125	7	ADB73960	AdB73960 Human PRO
45	208.5	37.2	125	7	ADB87179	AdB87179 Human PRO
46	208.5	37.2	125	7	ADB84761	AdB84761 Human PRO
47	208.5	37.2	125	7	ADB83876	AdB83876 Novel hum
48	208.5	37.2	125	7	ADB73031	AdB73031 Novel hum
49	208.5	37.2	125	7	ADB76676	AdB76676 Human PRO
50	208.5	37.2	125	7	ADC44102	AdC44102 Human sec
51	208.5	37.2	125	7	ADC61862	AdC61862 Human sec
52	208.5	37.2	125	7	ADC63826	AdC63826 Human sec
53	208.5	37.2	125	7	ADC66926	AdC66926 Human sec
54	208.5	37.2	125	7	ADC69050	AdC69050 Human sec
55	208.5	37.2	125	7	ADC63110	AdC63110 Human sec
56	208.5	37.2	125	7	ADC68175	AdC68175 Human sec
57	208.5	37.2	125	7	ADC41495	AdC41495 Human sec
58	208.5	37.2	125	7	ADC67550	AdC67550 Human sec
59	208.5	37.2	125	7	ADC62486	AdC62486 Human sec
60	208.5	37.2	125	7	ADC36869	AdC36869 Human PRO
61	208.5	37.2	125	7	ADC42119	AdC42119 Human sec
62	208.5	37.2	125	7	ADC21859	AdC21859 Human PRO
63	208.5	37.2	125	7	ADC49890	AdC49890 Novel hum
64	208.5	37.2	125	7	ADC49089	AdC49089 Novel hum
65	208.5	37.2	125	7	ADC49606	AdC49606 Novel hum
66	208.5	37.2	125	7	ADC47467	AdC47467 Novel hum
67	208.5	37.2	125	7	ADC47212	AdC47212 Novel hum
68	208.5	37.2	125	7	ADC78087	AdC78087 Novel hum
69	208.5	37.2	125	7	ADD06322	AdD06322 Novel hum
70	208.5	37.2	125	7	ADD10399	AdD10399 Human sec
71	208.5	37.2	125	7	ADC77841	AdC77841 Novel hum
72	208.5	37.2	125	7	ADD11359	AdD11359 Human sec
73	208.5	37.2	125	7	ADD50804	AdD50804 Novel hum
74	208.5	37.2	125	7	ADD51050	AdD51050 Novel hum
75	208.5	37.2	125	7	ADD37152	AdD37152 Human sec
76	208.5	37.2	125	7	ADD50531	AdD50531 Human PRO
77	208.5	37.2	125	7	ADD50285	AdD50285 Human PRO
78	208.5	37.2	125	7	ADD51296	AdD51296 Novel hum
79	208.5	37.2	125	7	ADE49488	Ade49488 Human sec
80	208.5	37.2	125	7	ADE35542	Ade35542 Human sec
81	208.5	37.2	125	7	ADE16656	Ade16656 Human sec
82	208.5	37.2	125	7	ADD73271	AdD73271 Human sec
83	208.5	37.2	125	7	ADD72629	AdD72629 Human sec
84	208.5	37.2	125	7	ADE17280	Ade17280 Human sec
85	208.5	37.2	125	7	ADF47294	AdF47294 Human sec
86	208.5	37.2	125	7	ADG53051	AdG53051 Human sec
87	208.5	37.2	125	7	ADG60371	AdG60371 Human sec
88	208.5	37.2	125	7	ADI61131	AdI61131 Human sec
89	208.5	37.2	125	8	ADC48843	AdC48843 Novel hum
90	208.5	37.2	125	8	ADE21014	Ade21014 Novel hum
91	208.5	37.2	125	8	ADE05858	Ade05858 Human PRO
92	208.5	37.2	125	8	ADD75087	AdD75087 Human PRO
93	208.5	37.2	125	8	ADD75833	AdD75833 Novel hum
94	208.5	37.2	125	8	ADD85065	AdD85065 Novel hum
95	208.5	37.2	125	8	ADD86891	AdD86891 Novel hum
96	208.5	37.2	125	8	ADE07668	Ade07668 Novel hum
97	208.5	37.2	125	8	ADE39065	Ade39065 Novel hum
98	208.5	37.2	125	8	ADE05612	Ade05612 Human PRO

99 208.5 37.2 125 8 ADD73597 Human PRO
100 208.5 37.2 125 8 ADE48788 Human sec

ALIGNMENTS

RESULT 1
AAR70984
ID AAR70984 standard; protein; 103 AA.

XX AC AAR70984;
XX DT 25-MAR-2003 (revised)
XX DT 27-JUL-1995 (first entry)

XX Component B protein.

XX Probe; component B; promoter; human; signal peptide; primer; RACE;
XX low molecular weight protein; urine; TGF-alpha; receptor; amplify;
XX inflammation; coagulation; tumour; angiogenesis.

XX Homo sapiens.

XX WO9414959-A1.

XX 07-JUL-1994.

XX 21-DEC-1993; 93WO-EP003645.

XX 22-DEC-1992; 92IT-RM000919.

XX (ISTF) ARS APPLIED RES SYST HOLDING NV.

XX Sirna A;

XX WPI; 1994-234696/28.

XX N-PSDB; AAQ87876, AAQ87878.

XX New protein, component B, isolated from urine - with antiinflammatory,
XX antitumor and anti-tumour activities, also related nucleic acid,
XX vectors and transfected cells.

XX Claim 1; Fig 2; 55pp; English.

XX This sequence represents the genomic sequence encoding component B. This
XX sequence was isolated using the probes given in AAQ87854-69. The
XX component B gene contains three exons and two introns. Exon 1 is 84 bp
XX and contains 26 bases of untranslated mRNA. It encodes 19 amino acids of
XX the putative signal peptide and is separated from exon 2 by an intron of
XX 410 bp. Exon 2 is 120 bp and codes for 3 amino acids of the putative
XX signal sequence and 37 amino acids of the mature protein. It is separated
XX from exon 3 by an intron of about 550 bp. Exon 3 is 326 bp and encodes
XX the C-terminal 44 amino acids of component B, and 192 bases of
XX untranslated RNA which contains a poly-A signal 14 bp upstream of the 3'
XX processing site. Component B is a low molecular weight protein which may
XX be isolated from human urine by adsorption at acid pH on kaolin, then
XX extraction with sodium hydroxide. It inhibits binding of TGF-alpha to its
XX receptor, and so has antiinflammatory, anticoagulant and/or antitumour
XX activities. It may also be used to treat conditions associated with
XX altered levels of TGF-alpha, eg. behavioural or hormonal disturbances and
XX angiogenesis. (Updated on 25-MAR-2003 to correct PN field.) (Updated on
XX 25-MAR-2003 to correct PR field.)

XX Sequence 103 AA;

Query Match 100.0%; Score 560; DB 2; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.4e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASRAWQVLLVAWSMCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60
DB 1 MASRAWQVLLVAWSMCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60

QY 61 YPFNQSPVVTRSCSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVVTRSCSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 2

AAB24039

ID AAB24039 standard; protein; 103 AA.

XX AC AAB24039;

XX DT 25-JAN-2001 (first entry)

XX Human PRO2038 protein sequence SEQ ID NO:53.

XX Human; tumour; diagnosis; neoplastic disease; proliferation; cancer;
XX identification; tumorigenesis; anticancer; detection.

XX Homo sapiens.

XX WO200053750-A1.

XX 14-SEP-2000.

XX 02-DEC-1999; 99WO-US028551.

XX 08-MAR-1999; 99WO-US005028.

XX 01-SEP-1999; 99WO-US020111.

XX 29-OCT-1999; 99US-0162506P.

XX 30-NOV-1999; 99WO-US028313.

XX 01-DEC-1999; 99WO-US028634.

XX (GETH) GENENTECH INC.

XX Botstein D, Goddard A, Gurney AL, Roy MA, Watanabe CK, Wood WI;

XX WPI; 2000-594320/56.

XX N-PSDB; AAC58121.

XX Antibodies specific for PRO polypeptides, used to diagnose and inhibit
XX the growth of tumors in mammals, and to identify inhibitors of PRO
XX polypeptide activity or expression.

XX Claim 61; Fig 38; 226pp; English.

XX The present invention describes an antibody that binds to a human protein
XX (I) selected from: PRO381; PRO1269; PRO1410; PRO1755; PRO1780; PRO3434;
XX PRO1927; PRO3567; PRO1295; PRO1293; PRO1303; PRO4344; PRO4354; PRO4397;
XX PRO4407; PRO1555; PRO1096; PRO2038; and PRO2262. (I) has anticancer
XX activity and can be used to diagnose tumours in mammals, by detecting
XX complex formation when the antibody is contacted with test cells.
XX Increased expression of genes encoding (I) can also be detected to
XX diagnose tumours. Agents which inhibit the activity of (I), especially
XX the antibodies, or an antisense oligonucleotide which hybridises to genes
XX encoding (I), can be used to inhibit tumour growth, preferably by
XX inducing cell death. Methods from the present invention can be used to
XX identify compounds which inhibit the biological activity of (I). AAC58019
XX to AAC58102 represent PCR primers and hybridisation probes used in
XX examples from the present invention for human PRO sequences. AAC58103 to
XX AAC58122 and AAB24031 to AAB24040 represent human PRO polynucleotide and
XX protein sequences given in the exemplification of the present invention

XX Sequence 103 AA;

Query Match 100.0%; Score 560; DB 3; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.4e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASRAWQVLLVAWSMCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60
DB 1 MASRAWQVLLVAWSMCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60

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QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 3
ADN04680
ID ADN04680 standard; protein; 103 AA.
AC ADN04680;
XX
DT 01-JUL-2004 (first entry)
DE Antipsoriatic protein sequence #524.
KW antipsoriatic; gene therapy; psoriasis; diagnosis.
XX
OS Homo sapiens.
XX
PN WO2004028479-A2.
XX
PD 08-APR-2004.
XX
PF 25-SEP-2003; 2003WO-US030907.
XX
PR 25-SEP-2002; 2002US-0414006P.
XX
PA (GETH ) GENENTECH INC.
XX
PI Bodary S, Clark H, Jackman J, Schoenfeld J, Williams PM, Wood WI;
PI Wu TD;
XX
DR WPI; 2004-305105/28.
DR N-PSDB; ADN04679.
XX
XX New PRO nucleic acid or polypeptide, useful for preparing a
PT pharmaceutical composition for diagnosing or treating psoriasis in a
PT mammal.
XX
PS Claim 9; SEQ ID NO 1074; 3069pp; English.
XX
CC The invention relates to novel polynucleotide and polypeptides for
CC treating psoriasis or a sequence having at least 80% identity to the
CC above sequences. The nucleic acid is useful for preparing a composition
CC for diagnosing or treating psoriasis in a mammal. This sequence
CC corresponds to one of the polypeptides of the invention.
XX
SQ Sequence 103 AA;

Query Match 100.0%; Score 560; DB 8; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.4e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASRWAVQLLLVAWSMCGEALKCYTCKEPMTSASCRITIRCKPEDTACMTTLVTVEAE 60
DB 1 MASRWAVQLLLVAWSMCGEALKCYTCKEPMTSASCRITIRCKPEDTACMTTLVTVEAE 60

QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 4
ADQ18711
ID ADQ18711 standard; protein; 103 AA.
AC ADQ18711;
XX
DT 26-AUG-2004 (first entry)
DE Human soft tissue sarcoma-upregulated protein - SEQ ID 1530.
XX
KW soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human.

QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 5
ADG06822
ID ADG06822 standard; protein; 95 AA.
XX
AC ADG06822;
XX
DT 26-FEB-2004 (first entry)
XX
DE Human SLURP-1, SEQ ID 14.
XX
KW Antinflammatory; antipsoriatic; human; SLURP-2;
KW secretory Ly-6/uPAR-related protein-2; inflammatory disease; psoriasis;
KW SLURP-1.
XX
OS Homo sapiens.
XX
PN WO2003102182-A1.
XX
PD 11-DEC-2003.
XX
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XX
OS Homo sapiens.
XX
PN WO2004048938-A2.
XX
PD 10-JUN-2004.
XX
PF 26-NOV-2003; 2003WO-US038193.
XX
PR 26-NOV-2002; 2002US-0429739P.
XX
PA (PROT-) PROTEIN DESIGN LABS INC.
XX
PI Aziz N, Ginsburg WM, Zlotnik A;
XX
DR WPI; 2004-441208/41.
XX
XX Early detection of soft tissue sarcoma comprises determining expression
XX of a gene in a first soft tissue sample and a normal soft tissue sample
XX and comparing the gene expression, also useful in treating soft tissue
XX sarcoma.
XX
XX Example 2; SEQ ID NO 1530; 210pp; English.
XX
CC The invention relates to a novel method for detecting soft tissue sarcoma
CC which comprises obtaining a first soft tissue sample from an individual
CC and a normal soft tissue sample from the same or different individual,
CC determining the expression of a gene in both samples and comparing the
CC expression of the gene in both soft tissue samples, where a higher level
CC of protein expression in the first soft tissue sample indicates the
CC presence of soft tissue sarcoma. The method of the invention has
CC cytostatic applications and may be useful for detecting soft tissue
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
CC acid sequences may be useful in diagnostic and screening applications.
CC The current sequence is that of a human soft tissue sarcoma-upregulated
CC protein of the invention. The current sequence is not shown within the
CC specification per se but was submitted in CD format by the inventor.
XX
SQ Sequence 103 AA;

Query Match 100.0%; Score 560; DB 8; Length 103;
Best Local Similarity 100.0%; Pred. No. 3.4e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MASRWAVQLLLVAWSMCGEALKCYTCKEPMTSASCRITIRCKPEDTACMTTLVTVEAE 60
DB 1 MASRWAVQLLLVAWSMCGEALKCYTCKEPMTSASCRITIRCKPEDTACMTTLVTVEAE 60

QY 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 YPFNQSPVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 5
ADG06822
ID ADG06822 standard; protein; 95 AA.
XX
AC ADG06822;
XX
DT 26-FEB-2004 (first entry)
XX
DE Human SLURP-1, SEQ ID 14.
XX
KW Antinflammatory; antipsoriatic; human; SLURP-2;
KW secretory Ly-6/uPAR-related protein-2; inflammatory disease; psoriasis;
KW SLURP-1.
XX
OS Homo sapiens.
XX
PN WO2003102182-A1.
XX
PD 11-DEC-2003.
XX
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XX PS 30-MAY-2003; 2003WO-JP006836.
XX PR 31-MAY-2002; 2002JP-00160285.
XX PA (INOK/) INOKO H.
XX PI Inoko H, Tsuji H, Okamoto K, Matsuzaka Y, Tamiya G;
XX PP WPI; 2004-081936/08.
XX DR Inflammatory skin disease-related SLURP-2 gene isolated from cDNA clones
XX PT showing significant difference in gene expression between normal and
XX PT psoriasis lesion tissues, applicable as diagnostic marker for psoriasis.
XX PS Example 2; SEQ ID NO 14; 89pp; Japanese.
XX CC The present invention relates to human SLURP-2 (secretory Ly-6/uPAR-
XX CC related protein-2, ADG06810) and its coding sequence (ADG06809,
XX CC ADG06830). The SLURP-2 sequences are useful as diagnostic markers for and
XX CC developing drugs for inflammatory diseases e.g. psoriasis. The present
XX CC sequence was used in a sequence alignment with the human SLURP-2
XX CC sequence.
XX SQ Sequence 95 AA;
Query Match 92.5%; Score 518; DB 8; Length 95;
Best Local Similarity 100.0%; Pred. No. 5.9e-45; Indels 0; Gaps 0;
Matches 95; Conservative 0; Mismatches 0;
QY 9 LLLVAASMGCEALKCVCTCKEPTMSASCRITTRCKPEDTACMTTLTVVEAEYFPNQSPV 68
DB 1 LLLVAASMGCEALKCVCTCKEPTMSASCRITTRCKPEDTACMTTLTVVEAEYFPNQSPV 60
QY 69 VTRSCSSCVATDPDSIGAHLIFCCFRDLNSEL 103
DB 61 VTRSCSSCVATDPDSIGAHLIFCCFRDLNSEL 95
RESULT 6
AAW94613
ID AAW94613 standard; protein; 81 AA.
XX AC AAW94613;
XX DT 28-APR-1999 (first entry)
XX DE Human LUS-I protein.
XX KW Human; LUS-I; infection; cancer; autoimmune disease; oedema; asthma;
XX KW paroxysmal nocturnal haemoglobinuria; diagnosis.
XX OS Homo sapiens.
XX PN WO9856810-A2.
XX PD 17-DEC-1998.
XX PF 09-JUN-1998; 98WO-EP003460.
XX PR 09-JUN-1997; 97DE-01024301.
XX PR 06-NOV-1997; 97DE-01049073.
XX PA (FORS/) FORSMANN W.
XX PI Forssmann W, Heine G, Adermann K, Schulz-Knappe P, Nehls M;
XX PI Meyer M, Bensch K;
XX DR WPI; 1999-080884/07.
XX CC New protein, LUS-I, and related nucleic acid, antibodies, inhibitors and
XX PT transgenic animals - for treatment and diagnosis of infections, cancer,
XX PT autoimmune disease, oedema, asthma and paroxysmal nocturnal
XX PT haemoglobinuria.

XX PS Claim 1; Page 9; 12pp; German.
XX CC The present sequence represents a human protein designated LUS-I. The
XX CC present invention also describes its cyclic, glycosylated,
XX CC phosphorylated, acetylated, amidated or side chain-coupled derivatives
XX CC and biologically active fragments. The LUS-I protein, nucleotide sequence
XX CC and antibodies can be used for diagnosis and treatment of bacterial and
XX CC viral infections; under- or over-expression of LUS-I; cancer (of the
XX CC cervix uteri; small cell bronchial, pancreatic or mammary carcinomas, or
XX CC melanoma); autoimmune diseases; angioneurotic oedema; bronchial asthma or
XX CC paroxysmal nocturnal haemoglobinuria. LUS-I nucleotide sequences are also
XX CC useful for treating (non-) somatic genetic disorders associated with
XX CC inadequate or abnormal expression of LUS-I. Transgenic animals are useful
XX CC for studying effects of LUS-I on formation and development of tumours.
XX CC Diagnostically, antibodies are used in standard immunoassays to detect
XX CC the protein in tissues and body fluids, while analysis of the nucleotide
XX CC sequence (particularly by amplification) is used to detect diseases that
XX CC can be treated with the protein
XX SQ Sequence 81 AA;
Query Match 79.3%; Score 444; DB 2; Length 81;
Best Local Similarity 100.0%; Pred. No. 1.7e-37; Indels 0; Gaps 0;
Matches 81; Conservative 0; Mismatches 0;
QY 23 LKCVCTCKEPTMSASCRITTRCKPEDTACMTTLTVVEAEYFPNQSPVTRSCSSCVATDP 82
DB 1 LKCVCTCKEPTMSASCRITTRCKPEDTACMTTLTVVEAEYFPNQSPVTRSCSSCVATDP 60
QY 83 DSIGAHLIFCCFRDLNSEL 103
DB 61 DSIGAHLIFCCFRDLNSEL 81
RESULT 7
AAE03301
ID AAE03301 standard; protein; 125 AA.
XX AC AAE03301;
XX DT 10-AUG-2001 (first entry)
XX DE Human gene 10 encoded secreted protein HFEBP27, SEQ ID NO:75.
XX KW Human; secreted protein; proliferative disorder; cancer; tumour;
XX KW foetal abnormality; developmental abnormality; haematopoietic disorder;
XX KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
XX KW inflammation; allergy; neurological disorder; Alzheimer's disease;
XX KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
XX KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;
XX KW cardiovascular disorder; angiocenic disorder; kidney disorder;
XX KW gastrointestinal disorder; pregnancy-related disorder;
XX KW endocrine disorder; infection; wound healing; vulnerability; cell culture;
XX KW chemotaxis; food additive; gene therapy; binding partner identification.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Peptide 1..22 /label= Signal_peptide
XX FT Protein 23..125 /note= "Mature secreted protein"
XX FT
XX PN WO200134800-A1.
XX PD 17-MAY-2001.
XX PF 08-NOV-2000; 2000WO-US030674.
XX PR 12-NOV-1999; 99US-0164750P.
XX PR 30-JUN-2000; 2000US-0215128P.
XX XX

PA (HUMA-) HUMAN GENOME SCI INC.
XX Ruben SM, Komatsoulis GA, Ebner R, Fiscella M, Wei P;
XX WPI; 2001-329085/34.
DR N-PSDB; AAD07714.
XX
XX New nucleic acid molecules encoding human secreted proteins, used in
PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
PT Parkinson's diseases and cancers.
XX
XX Claim 11; Page 464; 530pp; English.
XX
XX AAD07705-AAD07759 represent cDNAs corresponding to 19 human secreted
CC protein genes, and AAE03292-AAE03346 represent the proteins they encode.
CC AAE03347-AAE03375 represent human secreted protein fragments or variants.
CC The genes and their secreted proteins are useful for preventing, treating
CC or ameliorating medical conditions, e.g., by protein or gene therapy.
CC Pathological conditions can be diagnosed by determining the amount of the
CC new protein in a sample or by determining the presence of mutations in
CC the new genes. Specific uses are described for each of the 19 genes,
CC based on the tissues in which they are most highly expressed, and include
CC developing products for the diagnosis or treatment of proliferative
CC disorders, cancer, tumours, foetal and developmental abnormalities,
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, and
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC pregnancy-related disorders, endocrine disorders, and infections. The
CC proteins can also be used to aid wound healing and epithelial cell
CC proliferation, to prevent skin aging due to sunburn, to maintain organs
CC before transplantation, for supporting cell culture of primary tissues,
CC to regenerate tissues, to identify their cognate ligands or binding
CC partners, and in chemotaxis, and can be used as a food additive or
CC preservative to modify storage properties. Antibodies specific for a
CC protein of the invention can be used in alleviating symptoms associated
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The
CC present sequence represents a human secreted protein of the invention
XX
XX Sequence 125 AA;
SQ
Query Match 37.9%; Score 212.5; DB 4; Length 125;
Best Local Similarity 43.8%; Pred. No. 9.8e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;
QY 8 QLLVVAWSMGCGE---ALKCYTCKEPMTSASCTITRCKPBDTACMTTLVTVAEYFPN 64
Db 5 QLVLALLVLAACGELAPALRCYVCPEPTGVSQCVTIATCTTNETMCKTTLYSREIVYFPQ 64
QY 65 QSPVTRCSSCVATDPSIGAHLIFCCFRDLN 100
Db 65 GDSVTVKSCASKCPESVDGIGQTLFVSCCNTELGN 100
RESULT 8
ID AAE03327
XX AAE03327 standard; protein; 125 AA.
XX
XX AAE03327;
XX
XX 10-AUG-2001 (first entry)
XX
XX Human gene 10 encoded secreted protein HFBP27, SEQ ID NO:101.
XX
XX Human; secreted protein; proliferative disorder; cancer; tumour;
KW foetal abnormality; developmental abnormality; haematopoietic disorder;
KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW inflammation; allergy; neurological disorder; Alzheimer's disease;
KW Parkinson's disease; cognitive disorder; schizophrenia; asthma;
KW skin disorder; psoriasis; sepsis; diabetes; atherosclerosis;

KW cardiovascular disorder; angiogenic disorder; kidney disorder;
KW gastrointestinal disorder; pregnancy-related disorder;
KW endocrine disorder; infection; wound healing; vulnery; cell culture;
KW chemotaxis; food additive; gene therapy; binding partner identification.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FT Peptide 1..22
FT /label= signal_peptide
FT Protein 23..125
FT /note= "Mature secreted protein"
XX
XX WO200134800-A1.
XX
XX 17-MAY-2001.
XX
XX 08-NOV-2000; 2000WO-US030674.
XX
XX 12-NOV-1999; 99US-0164750P.
XX 30-JUN-2000; 2000US-0215128P.
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ruben SM, Komatsoulis GA, Ebner R, Fiscella M, Wei P;
XX WPI; 2001-329085/34.
XX N-PSDB; AAD07740.
XX
XX New nucleic acid molecules encoding human secreted proteins, used in
PT preventing, treating or ameliorating a disorder, e.g. Alzheimer's and
PT Parkinson's diseases and cancers.
XX
XX Claim 11; Page 485-486; 530pp; English.
XX
XX AAD07705-AAD07759 represent cDNAs corresponding to 19 human secreted
CC protein genes, and AAE03292-AAE03346 represent the proteins they encode.
CC AAE03347-AAE03375 represent human secreted protein fragments or variants.
CC The genes and their secreted proteins are useful for preventing, treating
CC or ameliorating medical conditions, e.g., by protein or gene therapy.
CC Pathological conditions can be diagnosed by determining the amount of the
CC new protein in a sample or by determining the presence of mutations in
CC the new genes. Specific uses are described for each of the 19 genes,
CC based on the tissues in which they are most highly expressed, and include
CC developing products for the diagnosis or treatment of proliferative
CC disorders, cancer, tumours, foetal and developmental abnormalities,
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, and
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,
CC pregnancy-related disorders, endocrine disorders, and infections. The
CC proteins can also be used to aid wound healing and epithelial cell
CC proliferation, to prevent skin aging due to sunburn, to maintain organs
CC before transplantation, for supporting cell culture of primary tissues,
CC to regenerate tissues, to identify their cognate ligands or binding
CC partners, and in chemotaxis, and can be used as a food additive or
CC preservative to modify storage properties. Antibodies specific for a
CC protein of the invention can be used in alleviating symptoms associated
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The
CC present sequence represents a human secreted protein of the invention
XX
XX Sequence 125 AA;
SQ
Query Match 37.9%; Score 212.5; DB 4; Length 125;
Best Local Similarity 43.8%; Pred. No. 9.8e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;
QY 8 QLLVVAWSMGCGE---ALKCYTCKEPMTSASCTITRCKPBDTACMTTLVTVAEYFPN 64
Db 5 QLVLALLVLAACGELAPALRCYVCPEPTGVSQCVTIATCTTNETMCKTTLYSREIVYFPQ 64

QY 65 QSPVTRSCSSCVATDPDSIGAHLIFCCFRLCN 100
Db 65 GDSVTVKSCASKPKPSVDGIGQTLFVSCCNTEL 100

RESULT 10

ABG64430
ID ABG64430 standard; protein; 125 AA.
XX AC ABG64430;
XX DT 27-AUG-2002 (first entry)
XX DE Human albumin fusion protein #1105.

XX KW Albumin fusion protein; therapeutic protein X; human albumin; HA;
KW human serum albumin; HSA; cancer; reproductive disorder;
KW digestive disorder; immune disorder; endocrine disorder;
KW haematopoietic disorder; neural disorder; connective disorder;
KW cytosolic; antifertility; antiinflammatory; antitumor;
KW immunomodulator; anti-HIV; antidiabetic; haemostatic; neuroleptic;
KW neuroprotective; antiparkinsonian; antimicrobial; osteopathic;
XX KW osteopathic; antiarthritic.

XX OS Homo sapiens.
OS Synthetic.

XX PN WO200177137-A1.

XX PD 18-OCT-2001.

XX PF 12-APR-2001; 2001WO-US011988.

XX PR 12-APR-2000; 2000US-0229358P.

XX PR 25-APR-2000; 2000US-0199384P.

XX PR 21-DEC-2000; 2000US-0256931P.

XX PA (HUMA-) HUMAN GENOME SCI INC.

XX PI Rosen CA, Haseltine WA;

XX WPI; 2002-010886/01.

XX New fusion protein for treating disease e.g. diabetes comprises an albumin fused to a therapeutic protein.

XX PS Claim 1; Page 1208; 2102pp; English.

XX CC The present invention relates to albumin fusion proteins comprising a therapeutic protein X and human albumin (HA), also known as human serum albumin, HSA). The proteins are useful for treating a disease or disorder that may be modulated by therapeutic protein X. The albumin extends the shelf-life of protein X, and may increase its biological in vitro/in vivo activity. The protein is useful for treating and diagnosing disorders such as cancer, reproductive disorders, digestive disorders (e.g. Crohn's disease, ulcerative colitis), immune disorders (e.g. acquired immunodeficiency syndrome, AIDS), endocrine disorders (e.g. diabetes), haematopoietic disorders, neural disorders (e.g. Alzheimer's, Parkinson's, Creutzfeldt-Jacob disease, encephalomyelitis, meningitis, schizophrenia), and connective disorders (e.g. osteoporosis, arthritis). ABG63326-ABG65518 represent albumin fusion proteins of the invention

XX SQ Sequence 125 AA;

Query Match 37.9%; Score 212.5; DB 5; Length 125;

Best Local Similarity 43.8%; Pred. No. 9.8e-14;

Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;

QY 8 QLLVLAWSMGCGE---ALKCYTCKEPMTSASCRITCKPEDTACMTTLVTVEAEYBN 64

Db 5 QLVLLALVLAAGGELAPALRCVCEPTGVSDCVTIATCTTNETWCKTTLYSREIVYPPQ 64

QY 65 QSPVTRSCSSCVATDPDSIGAHLIFCCFRLCN 100

QY 65 QSPVTRSCSSCVATDPDSIGAHLIFCCFRLCN 100
Db 65 GDSVTVKSCASKPKPSVDGIGQTLFVSCCNTEL 100

RESULT 9

ABG64428
ID ABG64428 standard; protein; 125 AA.
XX AC ABG64428;
XX DT 27-AUG-2002 (first entry)
XX DE Human albumin fusion protein #1103.

XX KW Albumin fusion protein; therapeutic protein X; human albumin; HA;
KW human serum albumin; HSA; cancer; reproductive disorder;
KW digestive disorder; immune disorder; endocrine disorder;
KW haematopoietic disorder; neural disorder; connective disorder;
KW cytosolic; antifertility; antiinflammatory; antitumor;
KW immunomodulator; anti-HIV; antidiabetic; haemostatic; neuroleptic;
KW neuroprotective; antiparkinsonian; antimicrobial; osteopathic;
XX KW osteopathic; antiarthritic.

XX OS Homo sapiens.
OS Synthetic.

XX PN WO200177137-A1.

XX PD 18-OCT-2001.

XX PF 12-APR-2001; 2001WO-US011988.

XX PR 12-APR-2000; 2000US-0229358P.

XX PR 25-APR-2000; 2000US-0199384P.

XX PR 21-DEC-2000; 2000US-0256931P.

XX PA (HUMA-) HUMAN GENOME SCI INC.

XX PI Rosen CA, Haseltine WA;

XX WPI; 2002-010886/01.

XX New fusion protein for treating disease e.g. diabetes comprises an albumin fused to a therapeutic protein.

XX PS Claim 1; Page 1207; 2102pp; English.

XX CC The present invention relates to albumin fusion proteins comprising a therapeutic protein X and human albumin (HA), also known as human serum albumin, HSA). The proteins are useful for treating a disease or disorder that may be modulated by therapeutic protein X. The albumin extends the shelf-life of protein X, and may increase its biological in vitro/in vivo activity. The protein is useful for treating and diagnosing disorders such as cancer, reproductive disorders, digestive disorders (e.g. Crohn's disease, ulcerative colitis), immune disorders (e.g. acquired immunodeficiency syndrome, AIDS), endocrine disorders (e.g. diabetes), haematopoietic disorders, neural disorders (e.g. Alzheimer's, Parkinson's, Creutzfeldt-Jacob disease, encephalomyelitis, meningitis, schizophrenia), and connective disorders (e.g. osteoporosis, arthritis). ABG63326-ABG65518 represent albumin fusion proteins of the invention

XX SQ Sequence 125 AA;

Query Match 37.9%; Score 212.5; DB 5; Length 125;

Best Local Similarity 43.8%; Pred. No. 9.8e-14;

Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;

QY 8 QLLVLAWSMGCGE---ALKCYTCKEPMTSASCRITCKPEDTACMTTLVTVEAEYBN 64

Db 5 QLVLLALVLAAGGELAPALRCVCEPTGVSDCVTIATCTTNETWCKTTLYSREIVYPPQ 64

Db 65 GDSVTWKSCASKCKPSPDVGIGQTLVPVSCNTELCN 100

RESULT 11

ADL77695

ID ADL77695 standard; protein; 125 AA.

XX ADL77695;

AC ADL77695;

XX 20-MAY-2004 (first entry)

DT 20-MAY-2004 (first entry)

DE Albumin fusion protein related therapeutic protein X, SEQ ID No 1177.

XX albumin fusion protein; cytostatic; antianaemic; antiarthritic;

KW antiasthmatic; anti-HIV; immunosuppressive; antidiabetic;

KW antipsoriatic; antibacterial; osteopathic; dermatological; antitumor;

KW immunomodulator; antiarrhythmic; cardiac; nontropic; antilipemic;

KW nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;

KW antidiabetic; anabolic; hypertensive; vulnerary; gene therapy; cancer;

KW reproductive system disorder; therapeutic protein.

XX Unidentified.

OS Unidentified.

XX US2004010134-A1.

PN 15-JAN-2004.

XX 12-APR-2001; 2001US-00833245.

PF 12-APR-2001; 2000US-0229358P.

XX 25-APR-2000; 2000US-0199384P.

PR 21-DEC-2000; 2000US-0256931P.

XX (ROSE/) ROSEN C A.

PA (HASE/) HASELTINE W A.

XX Rosen CA, Haseltine WA;

PI WPI; 2004-090519/09.

DR New albumin fusion proteins, useful for diagnosing, treating, preventing

PT or ameliorating diseases or disorders e.g. cancer, anemia, arthritis,

PT asthma, inflammatory bowel disease or Alzheimer's disease.

XX Disclosure; SEQ ID NO 1177; 279pp; English.

PS The invention relates to a novel albumin fusion protein. The invention

XX further relates to: a composition comprising the albumin fusion protein

CC and a pharmaceutical carrier; a kit comprising the composition of the

CC albumin fusion protein formula; a method of treating a disease or

CC disorder in a patient comprising the step of administering the albumin

CC fusion protein; a method of treating a patient with a disease or disorder

CC that is modulated by Therapeutic protein: X, or its fragment or variant;

CC a method of extending the shelf life of Therapeutic protein: X, or its

CC fragment or variant; a nucleic acid molecule comprising a polynucleotide

CC sequence encoding the albumin fusion protein; a vector comprising the

CC nucleic acid molecule of the albumin fusion protein; and a host cell

CC comprising the nucleic acid molecule of the albumin fusion protein. The

CC albumin fusion protein and its compositions have the following

CC activities: cytostatic, antianaemic, antiarthritic, antiasthmatic, anti-

CC HIV, immunosuppressive, antidiabetic, antipsoriatic, antibacterial,

CC osteopathic, dermatological, antitumor, immunomodulator, antiarrhythmic,

CC cardiac, nontropic, antilipemic, nephrotropic, uropathic,

CC neuroprotective, antiparkinsonian, tranquilizer, antidiabetic, anabolic,

CC hypertensive, and vulnerary. The albumin fusion protein nucleic acid may

CC be used in gene therapy to treat disorders. The albumin fusion protein is

CC useful for diagnosing, treating, preventing or ameliorating diseases or

CC disorders comprising indication: Y. The diseases or disorders include:

CC cancer (e.g. leukaemia, colon, bone, breast, liver or lung cancer),

CC immune or haematopoietic diseases (e.g. anaemia, Hodgkin's disease, acute

CC lymphocytic anaemia, multiple myeloma, arthritis, asthma, AIDS,

CC autoimmune disease, inflammatory bowel disease, psoriasis or Lyme

CC disease), reproductive system disorders (e.g. prostatitis, inguinal

CC hernia, varicocele, penile carcinoma, ovarian adenocarcinoma or Sertoli-

CC leydig tumours), musculoskeletal diseases (e.g. giant cell tumours,

CC Paget's disease, systemic lupus erythematosus, gout, muscular dystrophy

CC or cachexia), cardiovascular diseases (e.g. rhabdomyoma, heart disease,

CC arrhythmia, cardiac arrest, heat valve disease, hypernatraemia or

CC hyponatraemia), mixed foetal diseases (e.g. foetal alcohol syndrome,

CC Down's syndrome, Patau syndrome, Turner's syndrome, Apert syndrome or Tay

CC -Sachs disease), excretory diseases (e.g. urinary incontinence, urinary

CC tract infections or renal disorders), neural or sensory disease (e.g.

CC Alzheimer's disease, Parkinson's disease, cerebral malaria, meningitis,

CC cerebellar ataxia, attention deficit disorder, autism or obsessive

CC compulsive disorder), respiratory disease (e.g. emphysema, lung cancer or

CC occupational lung disease), endocrine diseases (e.g. diabetes, Addison's

CC disease or glomerulonephritis), digestive diseases (e.g. portal

CC hypertension, irritable bowel disease, gastric atrophy or pancreatitis)

CC or connective tissue or epithelial diseases (e.g. Crohn's disease,

CC scleroderma, wound healing or epidermolysis bullosa). This sequence

CC represents a therapeutic protein X relating to the albumin fusion protein

CC of the invention. The sequence listing data for this specification was

CC downloaded from the USPTO website.

XX

XX Sequence 125 AA;

SQ

Query Match 37.9%; Score 212.5; DB 8; Length 125;

Best Local Similarity 43.8%; Pred. No. 9.8e-14;

Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;

QY 8 QLLVAAWMSMGGE---ALKCYTCKEPMTSASCRITRCKPEDTACMTTLVTVEAYPPN 64

Db 5 QLVLLALVLAAGELAPALRCYCPETGVCSDVTIATCTTNETWCKTTLYSREIVYPPQ 64

QY 65 QSPVVTTRSCSSCVATDPDPSIGAAHLIFCCFRDLN 100

Db 65 GDSVTWKSCASKCKPSPDVGIGQTLVPVSCNTELCN 100

RESULT 12

ADL77697

ID ADL77697 standard; protein; 125 AA.

XX ADL77697;

XX 20-MAY-2004 (first entry)

DE Albumin fusion protein related therapeutic protein X, SEQ ID No 1179.

XX albumin fusion protein; cytostatic; antianaemic; antiarthritic;

KW antiasthmatic; anti-HIV; immunosuppressive; antidiabetic;

KW antipsoriatic; antibacterial; osteopathic; dermatological; antitumor;

KW immunomodulator; antiarrhythmic; cardiac; nontropic; antilipemic;

KW nephrotropic; uropathic; neuroprotective; antiparkinsonian; tranquilizer;

KW antidiabetic; anabolic; hypertensive; vulnerary; gene therapy; cancer;

KW reproductive system disorder; therapeutic protein.

OS Unidentified.

XX US2004010134-A1.

PN 15-JAN-2004.

XX 12-APR-2001; 2001US-00833245.

PF 12-APR-2001; 2000US-0229358P.

XX 25-APR-2000; 2000US-0199384P.

PR 21-DEC-2000; 2000US-0256931P.

XX (ROSE/) ROSEN C A.

PA (HASE/) HASELTINE W A.

XX Rosen CA, Haseltine WA;

PI WPI; 2004-090519/09.

DR

[illegible]

Db	60	VYPFGQSDVTWKSCASKCKPSVDVGIGQTLPVSCCNTELCN	100
		: :: : : : :	
RESULT 16			
AAB44312			
ID	AAB44312	standard; protein; 125 AA.	
XX			
AC	AAB44312;		
XX			
DT	08-FEB-2001	(first entry)	
XX			
DE	Human PRO788	(UNQ430) protein sequence SEQ ID NO:454.	
XX			
KW	Human;	secreted protein; transmembrane protein; PRO; EST; cytostatic;	
KW		expressed sequence tag; detection; cancer.	
XX			
OS	Homo sapiens.		
XX			
PN	WO200053756-A2.		
XX			
PD	14-SEP-2000.		
XX			
PF	18-FEB-2000;	200WO-US004341.	
XX			
PR	08-MAR-1999;	99WO-US005028.	
PR	12-MAR-1999;	99US-0123957P.	
PR	29-MAR-1999;	99US-0126773P.	
PR	21-APR-1999;	99US-0130232P.	
PR	28-APR-1999;	99US-0131445P.	
PR	14-MAY-1999;	99US-0134287P.	
PR	23-JUN-1999;	99US-0141037P.	
PR	26-JUL-1999;	99US-0145698P.	
PR	29-OCT-1999;	99US-0162506P.	
PR	30-NOV-1999;	99WO-US028313.	
PR	02-DEC-1999;	99WO-US028551.	
PR	16-DEC-1999;	99WO-US028565.	
PR	30-DEC-1999;	99WO-US030095.	
PR	30-DEC-1999;	99WO-US031243.	
PR	05-JAN-2000;	99WO-US031274.	
PR	06-JAN-2000;	200WO-US0000219.	
PR	06-JAN-2000;	200WO-US000277.	
XX		200WO-US000376.	
PA	(GETH) GENENTECH INC.		
XX			
FI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;		
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;		
PI	Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;		
PI	Klajavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DJ;		
PI	Stewart TA, Tumas D, Williams PM, Wood WI;		
XX			
DR	WPI; 2000-611443/58.		
DR	N-PSDB; AAC78570.		
XX			
PT	Novel PRO polypeptides and polynucleotides used in detection methods,		
PT	target bioactive molecules to specific cells, and to modulate cellular		
PT	activities.		
XX			
PS	Claim 12; Fig 185; 636pp; English.		
XX			
CC	AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence		
CC	tag) sequences which encode secreted or transmembrane PRO polypeptides.		
CC	The PRO polynucleotides and polypeptides have cytostatic activity. The		
CC	polynucleotides and polypeptides can be used for detecting the presence		
CC	of PRO polypeptides in samples, for linking bioactive molecules to cells		
CC	and for modulating biological activities of cells, using the polypeptides		
CC	for specific targeting. The polypeptide targeting can be used to kill the		
CC	target cells, e.g. for the treatment of cancers. The polypeptide pairs		
CC	provide specific targeting of bioactive molecules to cells. AAC78600 to		
CC	AAC78987 represent PCR primers and probes used in the isolation of the		
CC	PRO polynucleotide sequences		
XX			

CC useful for preventing, diagnosing and treating disorders in mammals by
CC cardiovascular, endothelial or angiogenic disorder in mammals by
CC modulating cell proliferation, angiogenesis and cardiovascularisation,
CC and for identifying agonists and antagonists of these processes. The
CC nucleic acids and the proteins they encode may be used in the prevention,
CC treatment and diagnosis of diseases associated with inappropriate PRO
CC expression such as cardiovascular, endothelial or angiogenic disorders in
CC mammals (e.g. atherosclerosis, cancers and cardiac hypertrophy). For
CC example, the nucleic acids (NCs) and vectors containing them and the PRO
CC polypeptide may be used to treat disorders associated with decreased PRO
CC expression. AAA77510 to AAA77721 and AAB24388 to AAB24435 represent
CC nucleotide and protein sequences used in the exemplification of the
CC present invention
XX
XX Sequence 125 AA;
SQ
Query Match 37.2%; Score 208.5; DB 3; Length 125;
Best Local Similarity 42.6%; Pred. No. 2.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
Qy 3 SRWAVQLLLVAWSMGCGE---ALKCYCKEPMTSASCRITTRCKPEDTACTMTLVTVEA 59
Db 4 TRLALLALVLA---COELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTILYSREI 59
Qy 60 EYPFNQSPVTVTRSSSSCVATDPDSIGAAHLIFCCFRLCN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTEL 100
RESULT 18
AAB50915
ID AAB50915 standard; protein; 125 AA.
XX
AC AAB50915;
DT 21-MAR-2001 (first entry)
XX
DE Human PRO788 protein.
XX
KW Human; PRO; antiinflammatory; dermatological; antiarthritic;
KW antirheumatic; cardiant; antianaemic; immunosuppressive; antithyroid;
KW antidiabetic; nootropic; neuroprotective; hepatotropic; virucide;
KW antiallergic; antiasthmatic; immune related disorder;
KW hepatobiliary disease; autoimmune disease; allergy.
XX
OS Homo sapiens.
XX
PN WO200073452-A2.
XX
PD 07-DEC-2000.
XX
PF 02-JUN-2000; 2000WO-US015264.
XX
PR 02-JUN-1999; 99WO-US012252.
PR 20-JUL-1999; 99US-0144732P.
PR 20-JUL-1999; 99US-0144758P.
PR 28-JUL-1999; 99US-0146222P.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 09-DEC-1999; 99US-0170262P.
PR 20-DEC-1999; 99WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
XX
XX (GETH) GENENTECH INC.
PA
XX Ashkenazi AJ, Baker KP, Chan B, Goddard A, Godowski PJ;
PI Gurney AL, Hebert C, Henzel W, Kabakoff RC, Shelton DL, Tumas D;
PI Watanabe CK, Wood WI;
XX WPI; 2001-025253/03.
DR N-PSDB; AAC91474.
XX
XX Thirty three nucleic acids encoding PRO polypeptides which are useful in
PT the diagnosis and treatment of immune related disorders, e.g. systemic
PT lupus erythematosus, rheumatoid arthritis, osteoarthritis, thyroiditis
PT and diabetes mellitus.
XX
XX Claim 58; Fig 28; 218pp; English.
XX
CC The present sequence is one of thirty three novel PRO polypeptides. The
CC PRO polypeptides, anti-PRO antibodies, agonists and antagonists are
CC useful for treating and diagnosing immune related disorders such as
CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
CC juvenile chronic arthritis, spondyloarthropathies, systemic sclerosis,
CC idiopathic inflammatory myopathies, Sjogren's syndrome, autoimmune
CC vasculitis, sarcoidosis, thyroiditis, diabetes mellitus, immune-mediated renal
CC thrombocytopaenia, disease, demyelinating diseases of the central and peripheral nervous
CC systems (such as multiple sclerosis, idiopathic demyelinating
CC demyelinating polynuropathy), hepatobiliary diseases (such as
CC cirrhosis, autoimmune chronic active hepatitis, primary biliary
CC infectious, granulomatous hepatitis and sclerosing cholangitis),
CC inflammatory bowel disease, gluten-sensitive enteropathy and Whipple's
CC disease, autoimmune or immune-mediated skin diseases (such as bullous
CC skin diseases, erythema multiforme, contact dermatitis, psoriasis),
CC allergic diseases such as asthma, allergic rhinitis, atopic dermatitis,
CC food hypersensitivity and urticaria), immunological diseases of the lung
CC (such as eosinophilic pneumonias, idiopathic pulmonary fibrosis and
CC hypersensitivity pneumonitis), transplantation associated diseases
CC including graft rejection and graft-versus-host diseases
XX
SQ Sequence 125 AA;
Query Match 37.2%; Score 208.5; DB 4; Length 125;
Best Local Similarity 42.6%; Pred. No. 2.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
Qy 3 SRWAVQLLLVAWSMGCGE---ALKCYCKEPMTSASCRITTRCKPEDTACTMTLVTVEA 59
Db 4 TRLALLALVLA---COELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTILYSREI 59
Qy 60 EYPFNQSPVTVTRSSSSCVATDPDSIGAAHLIFCCFRLCN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLFVSCCNTEL 100
RESULT 19
AAU83661
ID AAU83661 standard; protein; 125 AA.
XX
AC AAU83661;
XX
DT 08-MAY-2002 (first entry)

XX	Human PRO protein, Seq ID No 140.
DE	
XX	
KW	Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
KW	breast cancer; prostate tumour; rectal tumour; liver tumour;
KW	pericyte cell proliferation; chondrocyte cell proliferation;
KW	tumour necrosis factor-alpha.
XX	
OS	Homo sapiens.
XX	
PN	WO200208288-A2.
XX	
PD	31-JAN-2002.
XX	
PF	29-JUN-2001; 2001WO-US021066.
XX	
PR	20-JUL-2000; 2000US-0219556P.
PR	25-JUL-2000; 2000US-0220385P.
PR	25-JUL-2000; 2000US-0220605P.
PR	25-JUL-2000; 2000US-0220607P.
PR	25-JUL-2000; 2000US-0220624P.
PR	25-JUL-2000; 2000US-0220638P.
PR	25-JUL-2000; 2000US-0220664P.
PR	25-JUL-2000; 2000US-0220666P.
PR	26-JUL-2000; 2000US-0220893P.
PR	28-JUL-2000; 2000WO-US020710.
PR	01-AUG-2000; 2000US-0222425P.
PR	22-AUG-2000; 2000US-0227133P.
PR	23-AUG-2000; 2000US-02303522.
PR	24-AUG-2000; 2000WO-US023328.
PR	10-NOV-2000; 2000WO-US030873.
PR	28-NOV-2000; 2000US-0253646P.
PR	01-DEC-2000; 2000WO-US032678.
PR	20-DEC-2000; 2000US-00747259.
PR	20-DEC-2000; 2000WO-US034956.
PR	28-FEB-2001; 2001WO-US006520.
PR	01-MAR-2001; 2001WO-US006666.
PR	22-MAR-2001; 2001US-00816744.
PR	10-MAY-2001; 2001US-00854208.
PR	10-MAY-2001; 2001US-00854280.
PR	25-MAY-2001; 2001WO-US017092.
XX	
XX	(GETH) GENENTECH INC.
XX	
PI	Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
PI	Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
XX	
DR	WPI; 2002-172001/22.
DR	N-PSDB; ABK33605.
XX	
PT	One hundred and twenty two nucleic acids encoding PRO polypeptides,
PT	useful for treating a PRO related disorder and for diagnosing tumors such
PT	as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
PT	or liver tumor.
XX	
XX	Claim 11; Fig 140; 359pp; English.
XX	
CC	The invention relates to one hundred and twenty two nucleic acids
CC	encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
CC	encode human secreted proteins. The PRO nucleic acids, polypeptides,
CC	agonists and antagonists are useful for treating a PRO related disorder.
CC	The PRO polypeptides are useful for diagnosing tumours, especially lung
CC	cancer, colon cancer, breast tumor, prostate tumour, rectal tumour or
CC	liver tumour. The PRO polypeptides are useful for stimulating the
CC	proliferation of, or gene expression, in pericyte cells, for stimulating
CC	the proliferation or differentiation of chondrocyte cells, for
CC	stimulating the release of tumour necrosis factor-alpha from human blood,
CC	for stimulating or inhibiting the proliferation of normal human dermal
CC	fibroblast cells. The PRO polypeptide may also be used as molecular
CC	weight markers and for tissue typing. The PRO nucleic acids have
CC	applications in molecular biology. Including use as hybridisation probes,
CC	and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
CC	protein sequences of the invention

XQ	Sequence	125 AA;
	Query Match	37.2%; Score 208.5; DB 5; Length 125;
	Best Local Similarity	42.6%; Pred.No. 2.5e-13;
	Matches	43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
OY	3 SRNAVQLLLVAAMSGGGE---ALKKYCTKPEPMTSASCRITTRCKPEDTACMTTLTVTEA	59
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OY	60 EYPENSPVYTRSCSSCVATDDPSDGSAAHLIFCCPRDLGN	100
Dd	60 YVPFGDSTVTKSCASKRPSDVVDGIGQTLPVSCCNTELGN	100
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XX	AC ABB84871;	
XX	DT 16-MAY-2002 (first entry)	
XX	Human PR0788 protein sequence SEQ ID NO:110.	
DE	Human; angiogenesis; cardiact; cytostatic; antiangiogenic; hypotensive;	
KW	vulnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;	
KW	gene therapy; cardiovascular disorder; endothelial disorder; cancer;	
KW	angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;	
KW	age-related macular degeneration; arterial restenosis; angina;	
KW	rheumatoid arthritis; myocardial infarction; thrombophlebitis;	
KW	lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;	
KW	wound healing; chromosome mapping; gene mapping.	
OS	Homo sapiens.	
XX	WO200200690-A2.	
XX	PD 03-JAN-2002.	
XX	PF 20-JUN-2001; 2001WO-US019692.	
XX	23-JUN-2000; 2000US-0213637P.	
PR	20-JUL-2000; 2000US-0219556P.	
PR	25-JUL-2000; 2000US-0220624P.	
PR	25-JUL-2000; 2000US-0220664P.	
PR	28-JUL-2000; 2000WO-US020710.	
PR	02-AUG-2000; 2000US-0222695P.	
PR	17-AUG-2000; 2000US-00643657.	
PR	23-AUG-2000; 2000WO-US023522.	
PR	24-AUG-2000; 2000WO-US023328.	
PR	07-SEP-2000; 2000US-0230978P.	
PR	18-SEP-2000; 2000US-00664610.	
PR	18-SEP-2000; 2000US-00665350.	
PR	24-OCT-2000; 2000US-0242922P.	
PR	08-NOV-2000; 2000US-00709238.	
PR	08-NOV-2000; 2000WO-US030952.	
PR	10-NOV-2000; 2000WO-US030873.	
PR	01-DEC-2000; 2000WO-US032678.	
PR	20-DEC-2000; 2000US-00747259.	
PR	20-DEC-2000; 2000WO-US034956.	
PR	22-JAN-2001; 2001US-00767609.	
PR	28-FEB-2001; 2001US-00796498.	
PR	28-FEB-2001; 2001WO-US006520.	
PR	01-MAR-2001; 2001WO-US006666.	
PR	09-MAR-2001; 2001US-00802706.	
PR	14-MAR-2001; 2001US-00808689.	
PR	22-MAR-2001; 2001US-00816744.	
PR	05-APR-2001; 2001US-00828366.	
PR	10-MAY-2001; 2001US-00854208.	
PR	10-MAY-2001; 2001US-00854280.	
PR	25-MAY-2001; 2001US-00866028.	

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PR	21-APR-1998;	98US-0082568P.	PR	21-APR-1999;	99US-0130232P.
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PR	22-APR-1998;	98US-0082704P.	PR	14-MAY-1999;	99US-00311832.
PR	22-APR-1998;	98US-0082797P.	PR	14-MAY-1999;	99US-0134287P.
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PR	23-APR-1998;	98US-0082796P.	PR	02-JUN-1999;	99WO-US012252.
PR	27-APR-1998;	98US-0083336P.	PR	16-JUN-1999;	99US-0139557P.
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PR	05-MAY-1998;	98US-0084366P.	PR	30-DEC-1999;	99WO-US031243.
PR	06-MAY-1998;	98US-0084414P.	PR	30-DEC-1999;	99WO-US031274.
PR	07-MAY-1998;	98US-0084598P.	PR	05-JAN-2000;	2000WO-US000219.
PR	07-MAY-1998;	98US-0084600P.	PR	06-JAN-2000;	2000WO-US000277.
PR	07-MAY-1998;	98US-0084627P.	PR	06-JAN-2000;	2000WO-US000376.
PR	07-MAY-1998;	98US-0084637P.	PR	11-FEB-2000;	2000WO-US003565.
PR	07-MAY-1998;	98US-0084639P.	PR	18-FEB-2000;	2000WO-US004341.
PR	07-MAY-1998;	98US-0084640P.	PR	24-FEB-2000;	2000WO-US005004.
PR	07-MAY-1998;	98US-0084643P.	PR	02-MAR-2000;	2000WO-US005841.
PR	13-MAY-1998;	98US-0085323P.	PR	10-MAR-2000;	2000WO-US006319.
PR	13-MAY-1998;	98US-0085338P.	PR	21-MAR-2000;	2000WO-US007532.
PR	13-MAY-1998;	98US-0085339P.	PR	30-MAR-2000;	2000WO-US008439.
PR	15-MAY-1998;	98US-0085573P.	PR	17-MAY-2000;	2000WO-US013705.
PR	15-MAY-1998;	98US-0085579P.	PR	22-MAY-2000;	2000WO-US014042.
PR	15-MAY-1998;	98US-0085580P.	PR	30-MAY-2000;	2000WO-US014941.
PR	15-MAY-1998;	98US-0085582P.	PR	02-JUN-2000;	2000WO-US015264.
PR	15-MAY-1998;	98US-0085689P.	PR	28-JUL-2000;	2000WO-US020710.
PR	15-MAY-1998;	98US-0085697P.	PR	24-AUG-2000;	2000WO-US020710.
PR	15-MAY-1998;	98US-0085700P.	PR	08-NOV-2000;	2000US-00709238.
PR	15-MAY-1998;	98US-0085704P.	PR	27-NOV-2000;	2000US-00723749.
PR	18-MAY-1998;	98US-0086023P.	PR	01-DEC-2000;	2000WO-US032678.
PR	22-MAY-1998;	98US-0086392P.	PR	20-DEC-2000;	2000US-00747259.
PR	22-MAY-1998;	98US-0086414P.	PR	28-DEC-2000;	2000WO-US034956.
PR	22-MAY-1998;	98US-0086430P.	PR	22-FEB-2001;	2001WO-US006520.
PR	22-MAY-1998;	98US-0086486P.	PR	22-MAR-2001;	2001US-00816744.
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PR	26-JUN-1998;	98US-00105413.	PR	25-MAY-2001;	2001US-00817092.
PR	26-JUN-1998;	98US-0090863P.	PR	01-JUN-2001;	2001US-00872035.
PR	26-JUN-1998;	98US-0091010P.	PR	01-JUN-2001;	2001WO-US017800.
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PR	30-JUL-1998;	98US-0094651P.	PR	14-JUN-2001;	2001US-00882636.
PR	11-SEP-1998;	98US-0100038P.	PR	19-JUN-2001;	2001US-00886342.
PR	07-OCT-1998;	98US-00168978.	PR	20-JUN-2001;	2001WO-US019692.
PR	07-OCT-1998;	98WO-US021141.	PR	29-JUN-2001;	2001WO-US021066.
PR	02-NOV-1998;	98US-00184216.	PR	09-JUL-2001;	2001WO-US021735.
PR	06-NOV-1998;	98US-00187368.	PR	30-JUL-2001;	2001US-00918585.
PR	20-NOV-1998;	98US-0109304P.	XX		
PR	20-NOV-1998;	98WO-US024855.	PA	(GETH) GENENTECH INC.	
PR	07-DEC-1998;	98US-00202054.	XX		
PR	22-DEC-1998;	98US-00218517.	PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PR	22-DEC-1998;	98US-0113296P.	PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;	
PR	23-DEC-1998;	98US-0113621P.			
PR	05-JAN-1999;	99WO-US000106.			
PR	05-MAR-1999;	99US-00254465.			
PR	08-MAR-1999;	99WO-US005028.			
PR	10-MAR-1999;	99US-00265686.			
PR	10-MAR-1999;	99WO-US005190.			
					Query Match 37.2%; Score 208.5; DB 6; Length 125;
					Best Local Similarity 42.6%; Pred. No. 2.5e-13;
					Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

DR N-PSDB; ACA63840.
XX
PT New secreted and transmembrane nucleic acids and polypeptides, designated
PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
PT cancer.
XX
PS Claim 12; Fig 185; 453pp; English.
XX
CC The invention describes an isolated nucleic acid (I) comprising, or which
CC is at least 80 % sequence identity to, or the full-length coding sequence
CC of, any of 118 300-2100 nucleotide sequences, which encodes its
CC corresponding PRO polypeptide selected from 118 100-700 amino acid
CC sequences, all given in the specification. The nucleic acids and
CC polypeptides are useful for treating inflammatory diseases, organ
CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
CC premature aging, AIDS, cancer, or diabetic complications. The nucleic
CC acids are useful as hybridisation probes, in chromosome and gene mapping,
CC and in generating antisense RNA or DNA. The polypeptides are useful as
CC pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful
CC in tissue typing. This is the amino acid sequence of a novel human
CC secreted and transmembrane PRO polypeptide
XX
SQ Sequence 125 AA;
Query Match 37.2%; Score 208.5; DB 6; Length 125;
Best Local Similarity 42.6%; Pred. No. 2.5e-13;
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QY 60 EYBPNQSPVYTRSCSSCVATDPDSIGAAHLIFCCFRDLGN 100
Db 60 VYFPQGDSTVTKSCASKCKPSVDVGIGQTLPVSCCNTELGN 100
Search completed: November 10, 2005, 07:54:49
Job time : 169 secs

PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 11-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082566P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 07-OCT-1998; 98WO-US021141.
PR 20-NOV-1998; 98WO-US024855.
PR 05-JAN-1999; 99WO-US000106.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99WO-US005190.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012452.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US000376.
PR 18-FEB-2000; 2000WO-US003565.
PR 24-FEB-2000; 2000WO-US004341.
PR 24-FEB-2000; 2000WO-US005004.
PR 10-MAR-2000; 2000WO-US005841.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 21-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ; Shelton DL;
PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2003-328860/31.

85 208.5 37.2 125 14 US-10-223-085-110 Sequence 110, App
86 208.5 37.2 125 14 US-10-216-160-140 Sequence 140, App
87 208.5 37.2 125 14 US-10-216-162-140 Sequence 140, App
88 208.5 37.2 125 14 US-10-216-164-140 Sequence 140, App
89 208.5 37.2 125 14 US-10-216-167-140 Sequence 140, App
90 208.5 37.2 125 14 US-10-216-168-140 Sequence 140, App
91 208.5 37.2 125 14 US-10-219-065-140 Sequence 140, App
92 208.5 37.2 125 14 US-10-219-071-140 Sequence 140, App
93 208.5 37.2 125 14 US-10-219-074-140 Sequence 140, App
94 208.5 37.2 125 14 US-10-219-077-140 Sequence 140, App
95 208.5 37.2 125 14 US-10-219-465-140 Sequence 140, App
96 208.5 37.2 125 14 US-10-219-467-140 Sequence 140, App
97 208.5 37.2 125 14 US-10-219-469-140 Sequence 140, App
98 208.5 37.2 125 14 US-10-219-471-140 Sequence 140, App
99 208.5 37.2 125 14 US-10-219-473-140 Sequence 140, App
100 208.5 37.2 125 14 US-10-219-476-140 Sequence 140, App

ALIGNMENTS

RESULT 1
US-10-723-860-1530
; Sequence 1530, Application US/10723860
; Publication No. US20040255606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NFUS01
; CURRENT APPLICATION NUMBER: US/10723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1530
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-1530

Query Match 100.0%; Score 560; DB 16; Length 103;
Best Local Similarity 100.0%; Pred. No. 1e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASRAVQLLLVAASMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60
Db 1 MASRAVQLLLVAASMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60
Qy 61 YPFNQSPVTVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
Db 61 YPFNQSPVTVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103

RESULT 2
US-10-826-788-2
; Sequence 2, Application US/10826788
; Publication No. US20050004025A1
; GENERAL INFORMATION:
; APPLICANT: Chimenti et al.
; TITLE OF INVENTION: SLURP-1 Compositions and Methods of Use Thereof
; FILE REFERENCE: 20349-564
; CURRENT APPLICATION NUMBER: US/10/826,788
; CURRENT FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: 60/463,418
; PRIOR FILING DATE: 2003-04-16
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 103

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-826-788-2
Query Match 100.0%; Score 560; DB 17; Length 103;
Best Local Similarity 100.0%; Pred. No. 1e-49;
Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MASRAVQLLLVAASMGCGEALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAE 60
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Qy 61 YPFNQSPVTVTRSCSSSCVATDPDSIGAHLIFCCFRDLNSEL 103
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RESULT 3

US-09-833-245-1177
; Sequence 1177, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1177
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-833-245-1177

Query Match 37.9%; Score 212.5; DB 11; Length 125;
Best Local Similarity 43.8%; Pred. No. 5.7e-14;
Matches 42; Conservative 11; Mismatches 40; Indels 3; Gaps 1;
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Qy 65 QSPVTVTRSCSSSCVATDPDSIGAHLIFCCFRDLN 100
Db 65 GDSVTWKSCASKKXPSVDVGIGQTLVPVSCCNTEL 100

RESULT 4

US-09-833-245-1179
; Sequence 1179, Application US/09833245
; Publication No. US20040010134A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF546PCT
; CURRENT APPLICATION NUMBER: US/09/833,245
; CURRENT FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: 60/229,358
; PRIOR FILING DATE: 2000-04-12
; PRIOR APPLICATION NUMBER: 60/256,931
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: 60/199,384
; PRIOR FILING DATE: 2000-04-25
; NUMBER OF SEQ ID NOS: 2267
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1179

1	PRIOR APPLICATION NUMBER: 60/077799
2	PRIOR FILING DATE: 1998-03-12
3	PRIOR APPLICATION NUMBER: 60/078004
4	PRIOR FILING DATE: 1998-03-13
5	PRIOR APPLICATION NUMBER: 60/078886
6	PRIOR FILING DATE: 1998-03-20
7	PRIOR APPLICATION NUMBER: 60/078936
8	PRIOR FILING DATE: 1998-03-20
9	PRIOR APPLICATION NUMBER: 60/078910
10	PRIOR FILING DATE: 1998-03-20
11	PRIOR APPLICATION NUMBER: 60/078939
12	PRIOR FILING DATE: 1998-03-20
13	PRIOR APPLICATION NUMBER: 60/079294
14	PRIOR FILING DATE: 1998-03-25
15	PRIOR APPLICATION NUMBER: 60/079656
16	PRIOR FILING DATE: 1998-03-26
17	PRIOR APPLICATION NUMBER: 60/079664
18	PRIOR FILING DATE: 1998-03-27
19	PRIOR APPLICATION NUMBER: 60/079688
20	PRIOR FILING DATE: 1998-03-27
21	PRIOR APPLICATION NUMBER: 60/079663
22	PRIOR FILING DATE: 1998-03-27
23	PRIOR APPLICATION NUMBER: 60/079728
24	PRIOR FILING DATE: 1998-03-27
25	PRIOR APPLICATION NUMBER: 60/079786
26	PRIOR FILING DATE: 1998-03-27
27	PRIOR APPLICATION NUMBER: 60/079920
28	PRIOR FILING DATE: 1998-03-30
29	PRIOR APPLICATION NUMBER: 60/079923
30	PRIOR FILING DATE: 1998-03-30
31	PRIOR APPLICATION NUMBER: 60/080105
32	PRIOR FILING DATE: 1998-03-31
33	PRIOR APPLICATION NUMBER: 60/080107
34	PRIOR FILING DATE: 1998-03-31
35	PRIOR APPLICATION NUMBER: 60/080165
36	PRIOR FILING DATE: 1998-03-31
37	PRIOR APPLICATION NUMBER: 60/080194
38	PRIOR FILING DATE: 1998-03-31
39	PRIOR APPLICATION NUMBER: 60/080327
40	PRIOR FILING DATE: 1998-04-01
41	PRIOR APPLICATION NUMBER: 60/080328
42	PRIOR FILING DATE: 1998-04-01
43	PRIOR APPLICATION NUMBER: 60/080333
44	PRIOR FILING DATE: 1998-04-01
45	PRIOR APPLICATION NUMBER: 60/080334
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71	PRIOR APPLICATION NUMBER: 60/082569
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73	PRIOR APPLICATION NUMBER: 60/082704

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55	PRIOR APPLICATION NUMBER: 60/085573
56	PRIOR FILING DATE: 1998-05-15
57	PRIOR APPLICATION NUMBER: 60/085704
58	PRIOR FILING DATE: 1998-05-15
59	PRIOR APPLICATION NUMBER: 60/085697

37.2%; Score 208.5; DB 9; Length 125;

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RESULT 7
US-09-978-192A-454
; Sequence 454, Application US/09978192A
; Patent No. US20020177553A1
GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C9
CURRENT APPLICATION NUMBER: US/09/978,192A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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;	PRIOR APPLICATION NUMBER: 60/082796
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Query Match	37.2%;	Score	208.5;	DB	9;	Length	125;
Best Local Similarity	42.6%;	Pred. No.	1.5e-13;				
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[illegible]

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; Sequence 454, Application US/09999832A
; Publication No. US20020192706A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
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; APPLICANT: Gerritsen, Mary E.
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; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC63
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 9; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

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Db 4 TELALLALVLA---CCELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTTLYSREI 59

QY 60 EYPNQSPVTRSCSSCVATDPDSIGAHLIFCCFRDLGN 100
Db 60 VYFQGDSTVTKCASKCKPSVDVGIGQTLVPVSCCMTCLN 100

RESULT 9

US-09-978-189-454
; Sequence 454, Application US/09978189
; Publication No. US20030004102A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC7
; CURRENT APPLICATION NUMBER: US/09/978,189
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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; PRIOR APPLICATION NUMBER: 60/083336
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/083322


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; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
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; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080334

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

Qy 3 SRWAVQLLVAAWSGCCGE---ALKCYCKEPMTSASCRITTRCKPETAQMTTLVTVEA 59
Db 4 TRLALLALVLAA---CCELAPALRCYVCPEPTGVSDCVTTATCTTNETMCKTTLYSREI 59

Qy 60 EYPFNQSPVWTRSSSSCVATDPDPSIGAAHLIFCCCFRLCN 100
Db 60 VYFGQDSTVTKSCASKCKPSDVGIGQTLPVSCCNTELCN 100

RESULT 12
US-09-978-191A-454
; Sequence 454, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kijavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
```


APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC17
CURRENT FILING DATE: 2002-03-19
CURRENT APPLICATION NUMBER: US/09/978,403A
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/0622250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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;
Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;
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Qy 3 SRWAVQLLVNWSMGCGE---ALKCYTCCKEPMTSASCRITTRCKPEDTACMTTLVTVEA 59
;
Db 4 TRLLALVLAA-----CGELAPALRCVCPPTGVSDCVTIATCTTNETCKTLYSREI 59
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Qy 60 EYPNQSPVTVTRSSSCSVATDPDSIGAHLIFCCFRDLN 100
;
Db 60 VYFQGSUTVTKSASKCKPSVDVGIGQTLFVSCNTELCN 100
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RESULT 14
US-09-978-564A-454
; Sequence 454, Application US/09978564A
; Publication No. US20030050241A1
;
GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
;
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMCGGE---ALKCYTCCKEPMTSASCRITTRCKPEDTACMTTLTVVEA 59
Db 4 TRLALLALVIAA---CGELAPALRCYVCPEPTGVSDCVTIATCTTNETMCKTTLYSREI 59
QY 60 EYFENQSPVWTRSCSSSCVATPDPSIGAAHLIFCCFRDLN 100
Db 60 VYFQGDSTVTKSCASKCKPFDVIGQTLPVSCCNTELN 100

RESULT 15
US-09-999-833A-454
; Sequence 454, Application US/09999833A
; Publication No. US20030054405A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PIC65
; CURRENT APPLICATION NUMBER: US/09/999,833A

1 CURRENT FILING DATE: 2001-10-24
2 PRIOR APPLICATION NUMBER: 09/918585
3 PRIOR FILING DATE: 2001-07-30
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
; PRIOR FILING DATE: 1998-05-15

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.8%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVOLLVAAWSMGGE---ALKCVTKCKEPMTSASCRITTRCKPEDTACMTTLVTVEA 59
Db 4 TRLALLALVLAA---CGELAPALRCYVCEPTGVSDCVTIATCTTNETWCKTLYSREI 59
QY 60 EYFNGSPVVTRSCSSCVADPDPSICAAHLIFCCFRDLGN 100
Db 60 VYFQGDSTVTKSCASKCKPSDVGIGQTLPLVSCCNTELCN 100

RESULT 17
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; Sequence 454, Application US/09978824
; Publication No. US20030055216A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630PLC14
; CURRENT APPLICATION NUMBER: US/09/978,824
; CURRENT FILING DATE: 2001-10-17
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
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Db 4 TRLLALLVLAA-----CGELAPALRCYVCPEPTGVSDCVIATCTTNETWCKTLYSREI 59

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; APPLICANT: Ashkenazi, Avi
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; APPLICANT: Eaton, Dan
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; APPLICANT: Paoni, Nicholas F.
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; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C1
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; CURRENT FILING DATE: 2001-07-30
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; PRIOR FILING DATE: 1998-05-15
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/086023

Query Match 37.2%; Score 208.5; DB 10; Length 125;

Best Local Similarity 42.6%; Pred. No. 1.5e-13;

Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMGCGE---ALKCYCKEPMTSASCRITRCXPEOTACMTTLVTVEA 59

Db 4 TRLALALVLAA---CGELAPALRCYVCPETGVSDCVTATCTTNETMCKTTLYSREI 59

QY 60 EYFENQSPVVTTRSSSCSVATDPDSIGAAHLIFCCFRLCN 100

Db 60 VYFQGDSTVIKSCASKCKPSDVGIGQTLPVSCCNTELGN 100

RESULT 19

US-09-999-834A-454

; Sequence 454, Application US/09999834A

; Publication No. US20030064407A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Deenoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrata, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2630PIC75

; CURRENT APPLICATION NUMBER: US/09/999,834A

; CURRENT FILING DATE: 2001-10-24

; PRIOR APPLICATION NUMBER: 09/918585

; PRIOR FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17

; PRIOR APPLICATION NUMBER: 60/064249

; PRIOR FILING DATE: 1997-11-03

; PRIOR APPLICATION NUMBER: 60/065311

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 60/066364

; PRIOR FILING DATE: 1997-11-21

; PRIOR APPLICATION NUMBER: 60/077450

1 PRIOR FILING DATE: 1998-03-10
2 PRIOR APPLICATION NUMBER: 60/077632
3 PRIOR FILING DATE: 1998-03-11
4 PRIOR APPLICATION NUMBER: 60/077641
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129 PRIOR FILING DATE: 1998-05-07
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143 PRIOR FILING DATE: 1998-05-15
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148 PRIOR APPLICATION NUMBER: 60/085579


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; PRIOR FILING DATE: 1998-05-15
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697
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Query Match	37.2%;	Score 208.5;	DB 10;	Length 125;
Best Local Similarity	42.6%;	Pred. No. 1.5e-13;		
Matches 43; Conservative	13;	Mismatches 38;	Indels 7;	Gaps 2;

Oy	3	SRWAVQLLLVAWSMGGE--ALKCYTCKEPMTSASCRITTRCKPEDTACMTLTVTEA	59
	:	: :	
Dd	4	TRLALLALVLA-----CGELAPALRCYVCPEPTGVSDCVTIATCTTNMETCKITLYLSREI	59

60 EYPNQSPWTRSCSSCVATDPDSIGAAHLIFCCFRLDLCN 100
||| ||| : | : | : | : | : | :
60 VYPPQGSTVTVKSCAKCRPSVDVGIGOTLPVSCCNTELCN 100

RESULT 20

US-09-978-423A-454
; Sequence 454, Application US/09978423A
; Publication No. US20030069178A1

; GENERAL INFORMATION:

APPLICANT:	Askenazi, Avi	CURRENT FILING DATE:	2002-05-16
APPLICANT:	Baker Kevin P.	PRIOR APPLICATION NUMBER:	09/918585
APPLICANT:	Botstein, David	PRIOR FILING DATE:	2001-07-30
APPLICANT:	Deonoyers, Luc	PRIOR APPLICATION NUMBER:	60/062250
APPLICANT:	Eaton, Dan	PRIOR FILING DATE:	1997-10-17
APPLICANT:	Ferrara, Napoleon	PRIOR APPLICATION NUMBER:	60/064249
APPLICANT:	Filvaroff, Ellen	PRIOR FILING DATE:	1997-11-03
APPLICANT:	Gao, Wei-Qiang	PRIOR APPLICATION NUMBER:	60/065311
APPLICANT:	Gerber, Hanspeter	PRIOR FILING DATE:	1997-11-13
APPLICANT:	Griffioen, Mary E.	PRIOR APPLICATION NUMBER:	60/066364
APPLICANT:	Goddard, Audrey	PRIOR FILING DATE:	1997-11-21
APPLICANT:	Godowski, Paul J.	PRIOR APPLICATION NUMBER:	60/077450
APPLICANT:	Grimaldi, J. Christopher	PRIOR FILING DATE:	1998-03-10
APPLICANT:	Gurney, Austin L.	PRIOR APPLICATION NUMBER:	60/077632
APPLICANT:	Hillan, Kenneth J	PRIOR FILING DATE:	1998-03-11
APPLICANT:	Kljarin, Ivar J.		
APPLICANT:	Kuo, Sophia S.		
APPLICANT:	Napier, Mary A.		
APPLICANT:	Pan, James;		
APPLICANT:	Paoni, Nicholas F.		
APPLICANT:	Roy, Margaret Ann		
APPLICANT:	Shelton, David L.		
APPLICANT:	Stewart, Timothy A.		
APPLICANT:	Tumas, Daniel		
APPLICANT:	Williams, P. Mickey		
APPLICANT:	Wood, William I.		
TITLE OF INVENTION:	Secreted and Trans		
TITLE OF INVENTION:	Acids Encoding		
FILE REFERENCE:	P2630PIC21		
CURRENT APPLICATION NUMBER:	US/09/97		
CURRENT FILING DATE:	2002-05-16		
PRIOR APPLICATION NUMBER:	09/918585		
PRIOR FILING DATE:	2001-07-30		
PRIOR APPLICATION NUMBER:	60/062250		
PRIOR FILING DATE:	1997-10-17		
PRIOR APPLICATION NUMBER:	60/064249		
PRIOR FILING DATE:	1997-11-03		
PRIOR APPLICATION NUMBER:	60/065311		
PRIOR FILING DATE:	1997-11-13		
PRIOR APPLICATION NUMBER:	60/066364		
PRIOR FILING DATE:	1997-11-21		
PRIOR APPLICATION NUMBER:	60/077450		
PRIOR FILING DATE:	1998-03-10		
PRIOR APPLICATION NUMBER:	60/077632		
PRIOR FILING DATE:	1998-03-11		

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; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13; Indels 7; Gaps 2;
Matches 43; Conservative 13; Mismatches 38;

Qy 3 SRWAVOLLVAWSMCGGE---ALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEA 59
Db 4 TRIALLALVLA---CGELAPALRCVVCPEPTGVSDCVTIATCTTNETMCKTLYSREI 59
Qy 60 EYFPNOSPVTYRSCSSSCVATPDPSIGAAHLIFCCPRDLON 100
Db 60 VYFPGDSTVTKSCASKCKPSPDVGIGQTLPSVCCNTELCN 100

RESULT 21
US-09-978-193A-454
; Sequence 454, Application US/09978193A
; Publication No. US20030073624A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PlC6
; CURRENT APPLICATION NUMBER: US/09/978,193A
; CURRENT FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR APPLICATION NUMBER: 60/083666
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
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; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
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; PRIOR FILING DATE: 1998-05-15
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; PRIOR FILING DATE: 1998-05-15

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2	PRIOR FILING DATE: 1998-04-22
3	PRIOR APPLICATION NUMBER: 60/082804
4	PRIOR FILING DATE: 1998-04-22
5	PRIOR APPLICATION NUMBER: 60/082700
6	PRIOR FILING DATE: 1998-04-22
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11	PRIOR APPLICATION NUMBER: 60/083336
12	PRIOR FILING DATE: 1998-04-27
13	PRIOR APPLICATION NUMBER: 60/083322
14	PRIOR FILING DATE: 1998-04-28
15	PRIOR APPLICATION NUMBER: 60/083392
16	PRIOR FILING DATE: 1998-04-29
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19	PRIOR APPLICATION NUMBER: 60/083496
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32	PRIOR FILING DATE: 1998-04-29
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34	PRIOR FILING DATE: 1998-04-30
35	PRIOR APPLICATION NUMBER: 60/084366
36	PRIOR FILING DATE: 1998-05-05
37	PRIOR APPLICATION NUMBER: 60/084414
38	PRIOR FILING DATE: 1998-05-06
39	PRIOR APPLICATION NUMBER: 60/084441
40	PRIOR FILING DATE: 1998-05-06
41	PRIOR APPLICATION NUMBER: 60/084637
42	PRIOR FILING DATE: 1998-05-07
43	PRIOR APPLICATION NUMBER: 60/084639
44	PRIOR FILING DATE: 1998-05-07
45	PRIOR APPLICATION NUMBER: 60/084640
46	PRIOR FILING DATE: 1998-05-07
47	PRIOR APPLICATION NUMBER: 60/084598
48	PRIOR FILING DATE: 1998-05-07
49	PRIOR APPLICATION NUMBER: 60/084600
50	PRIOR FILING DATE: 1998-05-07
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52	PRIOR FILING DATE: 1998-05-07
53	PRIOR APPLICATION NUMBER: 60/084643
54	PRIOR FILING DATE: 1998-05-07
55	PRIOR APPLICATION NUMBER: 60/085339
56	PRIOR FILING DATE: 1998-05-13
57	PRIOR APPLICATION NUMBER: 60/085338
58	PRIOR FILING DATE: 1998-05-13
59	PRIOR APPLICATION NUMBER: 60/085323
60	PRIOR FILING DATE: 1998-05-13
61	PRIOR APPLICATION NUMBER: 60/085582
62	PRIOR FILING DATE: 1998-05-15
63	PRIOR APPLICATION NUMBER: 60/085700
64	PRIOR FILING DATE: 1998-05-15
65	PRIOR APPLICATION NUMBER: 60/085699
66	PRIOR FILING DATE: 1998-05-15
67	PRIOR APPLICATION NUMBER: 60/085579
68	PRIOR FILING DATE: 1998-05-15
69	PRIOR APPLICATION NUMBER: 60/085580
70	PRIOR FILING DATE: 1998-05-15
71	PRIOR APPLICATION NUMBER: 60/085573
72	PRIOR FILING DATE: 1998-05-15
73	PRIOR APPLICATION NUMBER: 60/085704

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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRNAVOLLVAASMGCGE---ALKCVTKCKEPMTSASCRITTRCKPKEDTACMTTLVTVEA 59
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Db 4 TRLLALALVLA---CGELAPALRCVCPPTGVSDCVTIATCTTNETWCKTTLYSREI 59
   :||:||||:|||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
QY 60 EYFNPQSVVTRSCSSCVATDPDSIGAHAHLIFCCPRDLN 100
   |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:
Db 60 VYFQGDSTVTKCASKCKSDVDGIGQTLVPVSCNTELCN 100
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RESULT 22
US-09-999-830A-454
; Sequence 454, Application US/09999830A
; Publication No. US2003007700A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deanoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630FIC70
; CURRENT APPLICATION NUMBER: US/09/999,830A
; CURRENT FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
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; PRIOR APPLICATION NUMBER: 60/077649
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; PRIOR APPLICATION NUMBER: 60/077791
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; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/078939
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/079294
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; PRIOR APPLICATION NUMBER: 60/082568
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; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082804
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Query Match          37.2%;   Score 208.5;   DB 10; Length 125;
Best Local Similarity 42.6%;   Pred. No. 1.1e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY      3 SRWAVQLLVAAASMGCGE---ALKCVTKCEPMTSACRIITRCKPBDDTACMTTLVTVEA 59
Db      4 TRUALLALVLAA-----CGELAPALRCVCPPEPTGVSDCVTIATCTTNETMCKTLLYSREI 59
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QY     60 EYFPNQSVVTRSCSSCSVCATDPDSIGAAHLIFCCFRDLCN 100
Db     60 VYFQGDSTVTKCASKCKPSVDVGIGQTLPVSCCNTELNCN 100
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RESULT 23
US-09-978-757A-454
; Sequence 454, Application US/09978757A
; Publication No US20030083248A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC26
; CURRENT APPLICATION NUMBER: US/09/978,757A
; PRIOR FILING DATE: 2002-03-19
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR FILING DATE: 1998-03-13
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; PRIOR FILING DATE: 1998-03-20
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; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
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; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred: No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRVAVOLLVAWSMGCE--ALKCVTKCKEPMTSASCRITTRCKPDTACMTTLTVTEA 59
Db 4 TRALLALVLA--CGELAPALRCVCPPTGVSQCVTIATCTTNETMCKTTLYSREI 59
QY 60 EYPNOSPVTTRCSSCVATDPDSIGAHLIFCCFRDLGN 100
Db 60 VYFPQGDSTVTKSCASKCKPSDVGIGQITLPVSCCNTELGN 100

RESULT 24

US-09-978-187B-454
; Sequence 454, Application US/09978187B
; Publication No. US20030096744A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Guney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2610PICS
; CURRENT APPLICATION NUMBER: US/09/978,187B
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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; PRIOR APPLICATION NUMBER: 60/077791
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; PRIOR APPLICATION NUMBER: 60/078004
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; PRIOR APPLICATION NUMBER: 60/078936
; PRIOR FILING DATE: 1998-03-20

; PRIOR APPLICATION NUMBER: 60/078910
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; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079663
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079728
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079786
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/079920
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/079923
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 60/080105
; PRIOR FILING DATE: 1998-03-31
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; PRIOR FILING DATE: 1998-03-31
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; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
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; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080333
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/080334
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; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081049
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; PRIOR FILING DATE: 1998-04-08
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; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081203
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081229
; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081955
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081817
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081819
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081952
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082569
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082804
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082700
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082797
; PRIOR FILING DATE: 1998-04-22
; PRIOR APPLICATION NUMBER: 60/082796

Db 4 TRLALLVLAA-----CGELAPALRCYVCPETGSDCVTIATCTTNETMCKTLYSREI 59
QY 60 EYFPNQSPVVTSCSSSCVATDPDSIGAAHLIFCCFRDLN 100
Db 60 VYPFQGDSTVTKSCASKCKPSDVGIGQTLVPVSCCNTELN 100

RESULT 25
US-09-978-643A-454
; Sequence 454, Application US/09978643A
; Publication No. US20030104998A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1G16
; CURRENT APPLICATION NUMBER: US/09/978,643A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 454
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-643A-454

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMGCGE---ALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVYEA 59
Db 4 TRLALLVLAA-----CGELAPALRCYVCPETGSDCVTIATCTTNETMCKTLYSREI 59

QY 60 EYFPNQSPVVTSCSSSCVATDPDSIGAAHLIFCCFRDLN 100
Db 60 VYPFQGDSTVTKSCASKCKPSDVGIGQTLVPVSCCNTELN 100

Search completed: November 10, 2005, 07:57:37
Job time : 167 secs

Prior Filing Date: 1998-04-23
Prior Application Number: 60/083336
Prior Filing Date: 1998-04-27
Prior Application Number: 60/083322
Prior Filing Date: 1998-04-28
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Prior Filing Date: 1998-04-29
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Prior Filing Date: 1998-04-29
Prior Application Number: 60/083496
Prior Filing Date: 1998-04-29
Prior Application Number: 60/083499
Prior Filing Date: 1998-04-29
Prior Application Number: 60/083545
Prior Filing Date: 1998-04-29
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Prior Filing Date: 1998-04-29
Prior Application Number: 60/083558
Prior Filing Date: 1998-04-29
Prior Application Number: 60/083559
Prior Filing Date: 1998-04-29
Prior Application Number: 60/083500
Prior Filing Date: 1998-04-29
Prior Application Number: 60/083742
Prior Filing Date: 1998-04-30
Prior Application Number: 60/084366
Prior Filing Date: 1998-05-05
Prior Application Number: 60/084414
Prior Filing Date: 1998-05-06
Prior Application Number: 60/084441
Prior Filing Date: 1998-05-06
Prior Application Number: 60/084637
Prior Filing Date: 1998-05-07
Prior Application Number: 60/084639
Prior Filing Date: 1998-05-07
Prior Application Number: 60/084640
Prior Filing Date: 1998-05-07
Prior Application Number: 60/084598
Prior Filing Date: 1998-05-07
Prior Application Number: 60/084600
Prior Filing Date: 1998-05-07
Prior Application Number: 60/084627
Prior Filing Date: 1998-05-07
Prior Application Number: 60/084643
Prior Filing Date: 1998-05-07
Prior Application Number: 60/083339
Prior Filing Date: 1998-05-13
Prior Application Number: 60/085338
Prior Filing Date: 1998-05-13
Prior Application Number: 60/085323
Prior Filing Date: 1998-05-13
Prior Application Number: 60/085582
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085700
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085689
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085579
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085580
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085573
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085704
Prior Filing Date: 1998-05-15
Prior Application Number: 60/085697

Query Match 37.2%; Score 208.5; DB 10; Length 125;
Best Local Similarity 42.6%; Pred. No. 1.5e-13;
Matches 43; Conservative 13; Mismatches 38; Indels 7; Gaps 2;

QY 3 SRWAVQLLLVAWSMGCGE---ALKCYTCKEPMTSASCRITTRCKPEDTACMTTLVYEA 59

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: November 10, 2005, 07:49:03 ; Search time 39 Seconds
(without alignments)

254.111 Million cell updates/sec

Title: US-10-826-788-2

Perfect score: 560

Sequence: 1 MASRWAVQLLLVAANSWGCG.....SIGAAHLIFCCRFDLNSEL 103

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

PIR 79:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	560	100.0	103	2 A59031	ARS component B 81
2	111	19.8	131	2 I56012	lymphocyte differe
3	108	19.3	126	2 S53340	CD59 protein - rat
4	108	19.3	128	1 RWHU59	surface glycoprote
5	100.5	17.9	127	1 A46528	phosphatidylinosit
6	100.5	17.9	128	1 A57321	E48 antigen precu
7	100.5	17.9	130	2 I54553	gene ThB protein -
8	99	17.7	126	2 I36914	CD59 protein - bab
9	98	17.5	128	2 I36894	CD59 protein - gre
10	92	16.4	134	2 D45835	Ly6 homolog RK3 pr
11	91	16.2	1322	2 T15689	hypothetical prote
12	90.5	16.2	134	2 A32506	Ly-6.2 protein pre
13	90	16.1	63	2 S03864	fasciotoxin - band
14	88.5	15.8	136	2 I49013	thymic shared anti
15	87.5	15.6	111	2 I48640	neurotoxin homolog
16	87.5	15.6	134	2 A25708	Ly-6.1 protein pre
17	87.5	15.6	145	2 T22693	hypothetical prote
18	86.5	15.4	134	2 I48639	neurotoxin homolog
19	85.5	15.3	84	2 I51698	pre-xenoxin-1 - Af
20	82.5	14.7	131	2 I56894	complement regulat
21	82	14.6	135	2 A45835	Ly6 homolog RK10 p
22	80	14.3	330	1 JN0561	urokinase-type pla
23	79	14.1	65	1 V6NJ3E	venom protein CM-1
24	77.5	13.8	653	2 T16553	hypothetical prote
25	77	13.8	65	1 V6NJ1Y	venom protein CM-1
26	76.5	13.7	512	2 T26414	hypothetical prote
27	76	13.6	65	2 T32003	neurotoxin 8 - ind
28	75.5	13.5	490	2 T32003	hypothetical prote
29	74.5	13.3	82	2 S70375	cardiotoxin VII pr

30	74.5	13.3	728	2 T20561	hypothetical prote
31	73.5	13.1	1308	2 A47253	epidermal growth f
32	73	13.0	600	2 T18593	hypothetical prote
33	72.5	12.9	650	2 A34498	glycoprotein anti
34	72	12.9	65	2 S16020	neurotoxin 7 - ind
35	72	12.9	425	2 T18592	hypothetical prote
36	72	12.9	718	2 JC5805	transcription fact
37	71.5	12.8	68	2 A59187	gamma-bungarotoxin
38	70.5	12.6	335	2 A39743	u-plasminogen acti
39	70.5	12.6	2718	2 A23475	G surface protein
40	69.5	12.4	708	2 T19474	hypothetical prote
41	69	12.3	65	1 V6NJ4W	venom protein S4C1
42	69	12.3	298	2 D96599	protein F20N2.16 l
43	68.5	12.2	222	2 B41643	urokinase-type pla
44	68.5	12.2	222	2 B55356	urokinase-type pla
45	68.5	12.2	327	2 A55356	urokinase-type pla
46	68.5	12.2	3020	2 A43932	mucin 2 precursor,
47	68	12.1	83	2 S70374	cardiotoxin V prec
48	68	12.1	787	2 A55034	6-phosphofructokin
49	67.5	12.1	1104	2 I38869	transcription fact
50	67	12.0	273	2 T16246	hypothetical prote
51	67	12.0	1612	2 JC5210	DNA (cytosine-5')-
52	66.5	11.9	478	2 S47040	gene Tt52 protein
53	66	11.8	60	2 A82662	hypothetical prote
54	66	11.8	281	2 S39495	u-plasminogen acti
55	66	11.8	501	2 T25093	hypothetical prote
56	66	11.8	802	2 T24293	hypothetical prote
57	66	11.8	949	2 T24294	hypothetical prote
58	65.5	11.7	148	2 D49530	16k vascular endot
59	65.5	11.7	330	2 T41967	hypothetical prote
60	65.5	11.7	420	2 G97801	hypothetical prote
61	65	11.6	265	2 T33695	hypothetical prote
62	65	11.6	285	2 I77964	SP-10 - western ba
63	65	11.6	314	2 T27686	hypothetical prote
64	65	11.6	389	2 T46722	conserved hypothet
65	65	11.6	714	2 T4080	hypothetical prote
66	65	11.6	5376	2 T42215	zonadhesin - mouse
67	64.5	11.5	239	2 T1881	hypothetical prote
68	64.5	11.5	248	2 T03868	hypothetical prote
69	64.5	11.5	453	2 G96695	hypothetical prote
70	64.5	11.5	505	2 I53417	type I serine-thre
71	64.5	11.5	511	2 A82808	two component sens
72	64.5	11.5	511	2 D97587	non-motile and pha
73	64.5	11.5	633	2 T27499	hypothetical prote
74	64.5	11.5	1475	2 S42718	nuclear pore compl
75	64	11.4	61	1 SMMK1	metallothionein 1
76	64	11.4	265	2 A37235	acrosomal protein
77	64	11.4	278	2 T20478	hypothetical prote
78	64	11.4	330	2 T25169	hypothetical prote
79	64	11.4	728	2 T09457	numb-binding prote
80	64	11.4	768	2 B41029	integrin beta-8 ch
81	63.5	11.3	63	2 S08190	metallothionein 1
82	63.5	11.3	127	2 T30062	hypothetical prote
83	63.5	11.3	223	2 B38346	ultra-high-sulfur
84	63.5	11.3	335	2 T31561	hypothetical prote
85	63.5	11.3	335	2 T31559	hypothetical prote
86	63.5	11.3	335	2 T31560	hypothetical prote
87	63.5	11.3	473	2 S20612	triacylglycerol li
88	63.5	11.3	499	2 JC2062	transforming growt
89	63.5	11.3	503	2 UC2061	transforming growt
90	63.5	11.3	873	1 I48952	VLDL receptor prec
91	63.5	11.3	1106	2 T13938	gene shuttle craf
92	63	11.2	57	1 T2NJBE	short toxin CM-1b
93	63	11.2	61	1 SMMHUG	metallothionein 1G
94	63	11.2	61	2 I57572	metallothionein 1I
95	63	11.2	232	2 A60095	larval glue protei
96	63	11.2	244	2 T31838	hypothetical prote
97	63	11.2	365	2 S50610	hypothetical prote
98	63	11.2	467	2 T26195	hypothetical prote
99	63	11.2	2090	2 T30075	hypothetical prote
100	63	11.2	2395	1 S50820	surface protein ty

ALIGNMENTS

RESULT 1

A59031

ARS component B 81/S protein precursor - human

N;Alternate names: secreted Ly-6/uPAR related protein 1; SLURP-1

C;Species: Homo sapiens (man)

C;Date: 09-Apr-1999 #sequence_revision 09-Apr-1999 #text_change 09-Jul-2004

C;Accession: A59031; A58842

R;Maastangeli, R.

submitted to the EMBL Data Library, August 1996

A;Description: ARS gene, component B.

A;Reference number: A59031

A;Accession: A59031

A;Status: translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-103 <MAS>

A;Cross-references: UNIPROT:P55000; GB:X99977; NID:g1536901; PIDN:CAA68237.1; PID:e26552

A;Experimental source: placenta

R;Adermann, K.; Wattler, F.; Wattler, S.; Heine, G.; Meyer, M.; Forssmann, W.G.; Nehls,

submitted to the Protein Sequence Database, July 1998

A;Description: Secreted protein, related to Ly-6, uPAR, soluble CD59, and snake and frog

A;Reference number: A58842

A;Accession: A58842

A;Molecule type: protein

A;Residues: 23-103 <ADE>

C;Genetics:

A;Gene: ARS

A;Introns: 20/1; 60/1

C;Keywords: glycoprotein

F;1-18/Domain: signal sequence #status predicted <SIG>

F;19-22/Domain: propeptide #status predicted <PRO>

F;23-103/Product: ARS component B 81/S protein #status experimental <MAT>

F;25-50,28-37,94-99/disulfide bonds: #status experimental

F;43-77,73-93/disulfide bonds: (or 43-73, 77-93) #status experimental

F;64/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 100.08; Score 560; DB 2; Length 103;

Best Local Similarity 100.04; Pred. No. 2.8e-44; Indels 0; Gaps 0;

Matches 103; Conservative 0; Mismatches 0;

Qy 1 MASRWAVQLLLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60

Db 1 MASRWAVQLLLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60

Qy 61 YPFNQSPVVTTRSCSSSCCVATPDSIGAHLIFCCFRDLNSEL 103

Db 61 YPFNQSPVVTTRSCSSSCCVATPDSIGAHLIFCCFRDLNSEL 103

RESULT 2

I56012

lymphocyte differentiation antigen Ly-6C - mouse

C;Species: Mus musculus (house mouse)

C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004

R;Palfree, R.G.B.; Sirlin, S.; Dumont, F.J.; Haemmerling, U.

J. Immunol. 140, 305-310, 1988

A;Title: N-Terminal and cDNA Characterization of Murine Lymphocyte Antigen Ly-6C.2.

A;Reference number: I56012; MUID:88088825; PMID:3335781

A;Accession: I56012

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-131 <PAL>

A;Cross-references: UNIPROT:P09568; GB:M18466; NID:g198927; PIDN:AAA39466.1; PID:g198928

R;Botwell, A.L.M.; Pace, P.E.; LeClair, K.P.

J. Immunol. 140, 2815-2820, 1988

A;Title: Isolation and Expression of an IFN-responsive Ly-6C chromosomal gene.

A;Reference number: I56010; MUID:88187399; PMID:3356904

A;Accession: I56010

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-84,'R',86-125,'V',127-131 <BOT>

A;Cross-references: GB:M21734; NID:g198935; PIDN:AAA39469.1; PID:g387409

C;Genetics:

A;Gene: Ly-6C

A;Introns: 24/1; 63/1

C;Superfamily: Ly-6 antigen; Ly-6 homology

Query Match 19.8%; Score 111; DB 2; Length 131;

Best Local Similarity 29.8%; Pred. No. 0.0026;

Matches 31; Conservative 14; Mismatches 49; Indels 10; Gaps 4;

Qy 2 ASRWAVQLLLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 61

Db 6 ATKSCILLIALLCAGRAQGLQCYECYGVPIETSCPAVT--CRASDGFCAQ--NIELIE 62

Qy 62 PPNQSPVVTTRSCSSSCVA----TDPDSIGAHLIFCCFRDLNLS 101

Db 63 DSORRKLKTRQCLSPGAPVPIKDPN---IRERTSCCEDLCNA 103

RESULT 3

S53340

CD59 protein - rat

C;Species: Rattus norvegicus (Norway rat)

C;Date: 01-Aug-1995 #sequence_revision 01-Sep-1995 #text_change 09-Jul-2004

C;Accession: S53340; S53339

R;Rushmere, N.K.; Harrison, R.A.; van den Berg, C.W.; Morgan, B.P.

Biochem. J. 304, 595-601, 1994

A;Title: Molecular cloning of the rat analogue of human CD59: structural comparison with

A;Reference number: S53339; MUID:95091697; PMID:7528012

A;Accession: S53340

A;Status: preliminary

A;Molecule type: mRNA

A;Residues: 1-126 <RUS>

A;Cross-references: UNIPROT:P27274; GB:U48255; NID:g1199654; PIDN:AAA88909.1; PID:g119965

A;Accession: S53339

A;Status: preliminary

A;Molecule type: protein

A;Residues: 23-24,'X',26-27,'X',29-34,'X',36-37,'X',39-40,'X',42-47,'X',49-58,'X',60,'X'

C;Superfamily: Ly-6 antigen; Ly-6 homology

F;23-101/Domain: Ly-6 homology <LY6>

Query Match 19.3%; Score 108; DB 2; Length 126;

Best Local Similarity 30.7%; Pred. No. 0.0048;

Matches 31; Conservative 20; Mismatches 40; Indels 10; Gaps 5;

Qy 1 MASRWAVQLLLVAWSMCGEALCKYCKEPMTSASCRITTRCKPEDTACMTTLTVVEAE 60

Db 1 MRARGFILLILLAVLCSTGVSLKCYNCLDPV--SSCKTNSTCSPNLDAC--LVAVSGK 55

Qy 61 YPFNQSPVVTTRSCSSSCCVATPDSIGAHLIF--CCFRDLN 100

Db 56 QVYQCWRFS--DCNAKFILS---RLEIANVQVRCQADLCN 92

RESULT 4

RWHU59

surface glycoprotein CD59 precursor [validated] - human

N;Alternate names: iPS antigen protein; 20K homologous restriction factor (HRF20); CD59 a

plex inhibition factor (MACIF); membrane inhibitor of reactive lysis (MIRL); protectin

C;Species: Homo sapiens (man)

C;Date: 30-Sep-1990 #sequence_revision 30-Sep-1990 #text_change 09-Jul-2004

C;Accession: A46252; J00134; A3405; A34587; S05504; S09201; A60828; PL00041; A60

R;Petranka, J.G.; Fleenor, D.E.; Sykes, K.; Kaufman, R.E.; Rosse, W.F.

Proc. Natl. Acad. Sci. U.S.A. 89, 7876-7879, 1992

A;Title: Structure of the CD59-encoding gene: further evidence of a relationship to murin

A;Reference number: A46252; MUID:92390353; PMID:1381503

A;Accession: A46252

A;Molecule type: DNA

A;Residues: 1-128 <PET>

A;Cross-references: UNIPROT:P13987; GB:M84349; GB:M82840; NID:g180149; PIDN:AAA88793.1;

A;Note: sequence extracted from NCBI backbone (NCBIN:112714, NCBIN:112718, NCBIN:112720,

R;Davies, A.; Simmons, D.L.; Hale, G.; Harrison, R.A.; Tighe, H.; Lachmann, P.J.; Waldma

[illegible]

J. Exp. Med. 170, 637-654, 1989

A:Title: CD59, an LY-6-like protein expressed in human lymphoid cells, regulates the act

A:Reference number: JLO109; MUID:89361238; PMID:2475570

A:Accession: JLO109

A:Molecule type: mRNA

A:Residues: 1-128 <DAV>

A:Cross-references: EMBL:X16447; NID:g29805; PIDN:CAA34467.1; PID:g29806

R:Okada, H.; Nagami, Y.; Takahashi, K.; Okada, N.; Hideshima, T.; Takizawa, H.; Kondo, J.

Biochem. Biophys. Res. Commun. 162, 1553-1559, 1989

A:Title: 20 KDa homologous restriction factor of complement resembles T cell activating

A:Reference number: A33405; MUID:89350983; PMID:2475111

A:Accession: A33405

A:Molecule type: mRNA

A:Residues: 1-128 <OKA>

A:Cross-references: GB:M27909; NID:G623406; PIDN:AAA60543.1; PID:G623407

R:Sugita, Y.; Tobe, T.; Oda, E.; Tomita, M.; Yasukawa, K.; Yamaji, N.; Takemoto, T.; Fur

J. Biochem. 106, 555-557, 1989

A:Title: Molecular cloning and characterization of MAC1P, an inhibitor of membrane chan

A:Reference number: JU0134; MUID:90110046; PMID:2606909

A:Accession: JU0134

A:Molecule type: mRNA

A:Residues: 1-128 <SUG>

A:Note: parts of this sequence, including the amino end of the mature protein, were conf

A:Note: sites for glycosylation and the absence of glycosylation were confirmed

R:Sawada, R.; Ohashi, K.; Anaguchi, H.; Okazaki, H.; Hattori, M.; Minato, N.; Naruto, M.

DNA Cell Biol. 9, 213-220, 1990

A:Title: Isolation and expression of the full-length cDNA encoding CD59 antigen of human

A:Reference number: A34587; MUID:90253615; PMID:1692709

A:Accession: A34587

A:Molecule type: mRNA

A:Residues: 1-128 <SAW>

A:Cross-references: GB:M34671; NID:g180152; PIDN:AAA51952.1; PID:g180153

R:Sawada, R.; Ohashi, K.; Okano, K.; Hattori, M.; Minato, N.; Naruto, M.

Nucleic Acids Res. 17, 6728, 1989

A:Title: Complementary DNA sequence and deduced peptide sequence for CD59/MEM-43 antigen

A:Reference number: S05504; MUID:89386002; PMID:2476718

A:Accession: S05504

A:Molecule type: mRNA

A:Residues: 27-128 <SA2>

A:Cross-references: EMBL:X15861; NID:g29803; PIDN:CAA33870.1; PID:G1340180

R:Philbrick, W.M.; Palfree, R.G.E.; Maher, S.E.; Bridgett, M.M.; Sirlin, S.; Bothwell, A.

Eur. J. Immunol. 20, 87-92, 1990

A:Title: The CD59 antigen is a structural homologue of murine Ly-6 antigens but lacks in

A:Reference number: S09201; MUID:90168959; PMID:1689664

A:Accession: S09201

A:Molecule type: mRNA

A:Residues: 1-128 <PHI>

A:Cross-references: EMBL:X17198; NID:g29814; PIDN:CAA35059.1; PID:g29815

R:Cabral, A.R.; Cole, L.A.; Walz, D.A.; Castor, C.W.

Arthritis Rheum. 30, 1393-1400, 1987

A:Title: Connective tissue activation. XXXII. Structural and biologic characteristics of

A:Reference number: A60828; MUID:88134429; PMID:3124861

A:Accession: A60828

A:Molecule type: protein

A:Residues: 26-27, 'V', 29-30, 'D', 32-37, 'X', 39-42, 'XX', 45-50, 'X', 52-62, 'VXRLID' <CAB>

A:Experimental source: normal urine

A:Note: the six unknown or mismatched residues in the amino-terminal fragment correspond

nal fragment was determined by a kinetic carboxypeptidase Y method

R:Stefanova, I.; Hilgert, I.; Kristofova, H.; Brown, R.; Low, M.G.; Horejsi, V.

Mol. Immunol. 26, 153-161, 1989

A:Title: Characterization of a broadly expressed human leucocyte surface antigen MEM-43

A:Reference number: PL0041; MUID:89143489; PMID:2918859

A:Accession: PL0041

A:Molecule type: protein

A:Residues: 26-42 <STB>

R:Harada, R.; Okada, N.; Fujita, T.; Okada, H.

J. Immunol. 144, 1823-1828, 1990

A:Title: Purification of IFS antigen that prevents complement attack on homologous cell

A:Reference number: A60774; MUID:90171576; PMID:2307842

A:Accession: A60774

A:Molecule type: protein

A:Residues: 26-42, 'XX', 45-50, 'X', 52, 'X', 54-57, 'X', 59-63 <HAR>

R:Nanamiya, H.; Stewart, B.H.; Rollins, S.A.; Zhao, J.; Bothwell, A.L.M.; Sims, P.J.

A;Note: sequence extracted from NCBI backbone (NCBIP:il16104)
C;Comment: This 15K GPI-anchored surface antigen is found on B thymocytes and B cells.
C;Genetics:
A;Gene: Thb
A;Map position: 15
C;Superfamily: Ly-6 antigen; Ly-6 homology
C;Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-100/Domain: Ly-6 homology <LY6>
F;21-93/Product: phosphatidylinositol-anchored B-cell antigen ThB #status predicted <MAT>
F;94-127/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;93/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 17.9%; Score 100.5; DB 1; Length 127;
Best Local Similarity 31.4%; Pred. No. 0.023;
Matches 32; Conservative 18; Mismatches 39; Indels 13; Gaps 6;

QY 6 AVQLLVAAWSMCGGEGALKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEVPPNQ 65
|||:|||:: |||:|||:: |||:: |||:: |||:: |||::
Db 4 ALLVLVLAVATSPAWALRCHVC---TNSANCKNPQC-PSNFYFKCTVTSVE---PLNG 56

QY 66 SPVWTRSCSSCVATPDPSIG-----NAHLIFCCFRDLNSEL 103
:|||:|||:: |||:|||:: |||:: |||:: |||:: |||::
Db 57 N-LVRKECANSC-TSDYSQQGHVSSGEVTTCCQTCLNERL 96

RESULT 6
A57321
E48 antigen precursor - human
N;Alternate names: desmoglein III
C;Species: Homo sapiens (man)
C;Date: 08-Dec-1995 #sequence_revision 16-Aug-1996 #text_change 09-Jul-2004
C;Accession: A57321
R;Brakenhoff, R.H.; Gerzetsen, M.; Knippels, E.M.C.; van Dijk, M.; van Esseen, H.; Olde W
J. Cell Biol. 129, 1677-1689, 1995
A;Title: The human E48 antigen, highly homologous to the murine Ly-6 antigen ThB, is a Q
A;Reference number: A57321; PMID:95310346; PMID:7790363
A;Accession: A57321
A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-128 <BRA>
A;Cross-references: UNIPROT:Q14210; GB:X82693; NID:G887453; PIDN:CAA58014.1; PID:G887454
A;Note: parts of this sequence, including the amino end of the mature protein, were conf
C;Genetics:
A;Map position: 8q24-qter
C;Superfamily: Ly-6 antigen; Ly-6 homology
C;Keywords: blocked carboxyl end; cell adhesion; glycoprotein; lipoprotein; phosphatidyl
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-100/Domain: Ly-6 homology <LY6>
F;21-93/Product: E48 antigen #status predicted <MAT>
F;23-45,26-32,38-63,67-86,87-93/Disulfide bonds: #status predicted
F;93/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 17.9%; Score 100.5; DB 1; Length 128;
Best Local Similarity 31.1%; Pred. No. 0.023;
Matches 33; Conservative 16; Mismatches 32; Indels 25; Gaps 7;

QY 9 LLLVAWSMGGCEA--LKCYCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEVPPNQ 66
|||:|||:: |||:|||:: |||:|||:: |||:|||:: |||:|||:: |||:|||::
Db 5 LLLLAVALAVATGPALTIRCHVC---TSSSNCKHNVCPASSRFCKTNTVE---PL-RG 56

QY 67 PVWTRSCSSC-----VATPDPSIGAHLIFCCFRDLNSEL 103
:|||:|||:: |||:|||:: |||:|||:: |||:|||:: |||:|||:: |||:|||::
Db 57 NLVKDKAESCTPSYTIQGVSSTSTQ-----CCQEDLCNEKL 96

RESULT 7
I54553
gene Thb protein - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 23-Jul-1999
C;Accession: I54553
R;Gumley, T.P.; McKenzie, I.F.; Sandrin, M.S.

Immunogenetics 42, 221-224, 1995
A>Title: Sequence and structure of the mouse ThB gene.
A;Reference number: I54553; MUID:95369850; PMID:7642235
A;Accession: I54553
A>Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A;Residues: 1-130 <RES>
A;Cross-references: GB:L40419; NID:g1019624; PIDN:AAA79249.1.; PID:g1019625
C;Genetics:
A;Gene: ThB
A;Introns: 21/1; 54/1
C;Superfamily: Ly-6 antigen; Ly-6 homology
F;24-103/Dmain: Ly-6 homology <LY6>

Query Match 17.9%; Score 100.5; DB 2; Length 130;
Best Local Similarity 31.4%; Pred. No. 0.024;
Matches 32; Conservative 18; Mismatches 39; Indels 13; Gaps 6;

QY 6 AVQLLVAAWSGCGEALKYCYCKPEMTSASCTITRCKPEDTACMWTTLVTVEAEYPNQ 65
 |:|::||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 7 ALLVLLVLAVATSPAWLRCHVC---TSANCKNPQC--PSNFYFKTVTSVE---PLNG 59
 |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 66 SPWTRSCSSCVATDPDSIG----AAHLIFCCFRDLNCSEL 103
 ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 60 N-LVRKECANSC-TSDYSQQGHVVSGSEVTGCCQTDLNERL 99
 :::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 8

I36914
CD59 protein - baboon
C;Species: Papio sp. (baboon)
C>Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 09-Jul-2004
C;Accession: I36914
R;Fodor, W.L.; Rollins, S.A.; Bianco-Caron, S.; Burton, W.V.; Guilmette, E.R.; Rother, R.;
Immunogenetics 41, 51, 1995
A>Title: Primate terminal complement inhibitor homologues of human CD59.
A;Reference number: I36894; MUID:95104908; PMID:7528724
A;Accession: I36914
A>Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A;Residues: 1-126 <RES>
A;Cross-references: UNIPROT:Q28785; GB:L22862; NID:g514327; PIDN:AAA74127.1; PID:g514328
C;Superfamily: Ly-6 antigen; Ly-6 homology
F;26-100/Domain: Ly-6 homology <LY6>

Query Match 17.7%; Score 99; DB 2; Length 126;
Best Local Similarity 29.2%; Pred. No. 0.031;
Matches 28; Conservative 16; Mismatches 42; Indels 10; Gaps 5;

QY 9 LLLVAWSMGCEALKYCICKPEMTSASCTITRCKPEDTACMWTTLVTVEAEYPNQSPV 68
 |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 12 LLALLAFVCHSHGLSQYNCPNET--NCKTAIACSGETCLIAAGLQV---YNOCWK 66
 |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 69 VTRSCSSCVATDPDLSGAHIL-IFFCFRDLCNSL 103
 ::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB 67 FA-NCFNDIST---LKESLEQFYCKEDLCNEQL 98
 :::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

RESULT 9

I36894
CD59 protein - green monkey
C;Species: Cercopithecus aethiops (green monkey, grivet)
C>Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 09-Jul-2004
C;Accession: I36894
R;Fodor, W.L.; Rollins, S.A.; Bianco-Caron, S.; Burton, W.V.; Guilmette, E.R.; Rother, F.;
Immunogenetics 41, 51, 1995
A>Title: Primate terminal complement inhibitor homologues of human CD59.
A;Reference number: I36894; MUID:95104908; PMID:7528724
A;Accession: I36894
A>Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: DNA
A;Residues: 1-128 <RES>
A;Cross-references: UNIPROT:Q28216; GB:L22863; NID:g514314; PIDN:AAA74126.1; PID:g514315

C;Superfamily: Ly-6 antigen; Ly-6 homology
F;26-102/Domain: Ly-6 homology <LY6>

Query Match 17.5%; Score 98; DB 2; Length 128;
Best Local Similarity 30.1%; Pred. No. 0.039;
Matches 28; Conservative 15; Mismatches 40; Indels 10; Gaps 5;

QY 9 LLLVAWSMCGGALKCYTCKEPMTSASCHTITRCKPEDTACMTTLVTVEAEYPPNQSPV 68
DB 12 LLLVLAVFCHSGHLCYCNCNPNFTT--DCKTAINCSGGFDTCILARAGLQV---YNQCWK 66

QY 69 VTRSCSSSVATDPDSIGAAHL-IFCCFRDLGN 100
DB 67 FA-NCNPNFNDIST---LLKESLQYFCCKDLGN 95

RESULT 10

D45835
Ly6 homolog RK3 precursor - rat
C;Species: Rattus norvegicus (Norway rat)
C;Date: 03-Mar-1994 #sequence_revision 03-Mar-1994 #text_change 09-Jul-2004
C;Accession: D45835; C45835
R;Friedman, S.; Palfree, R.G.E.; Sirlin, S.; Haemmerling, U.
Immunogenetics 31, 104-111, 1990
A;Title: Analysis of three distinct Ly6-A-related cDNA sequences isolated from rat kidney
A;Reference number: A45835; MUID:90152758; PMID:2154400
A;Accession: D45835
A;Molecule type: mRNA
A;Residues: 1-134 <PRI>
A;Cross-references: UNIPROT:O63318; GB:M30690; NID:G205249; PIDN:AAA41547.1; PID:G205250
A;Experimental source: clone RK3
A;Accession: C45835
A;Molecule type: mRNA
A;Residues: 2-134 <PR2>
A;Cross-references: GB:M30691; NID:G205251; PIDN:AAA41548.1; PID:G205252
A;Experimental source: clone RK11
C;Superfamily: Ly-6 antigen; Ly-6 homology
C;Keywords: blocked carboxyl end; Glycoprotein; lipoprotein; phosphatidylinositol linkage
F;1-26/Domain: signal sequence #status predicted <SIG>
F;27-105/Product: Ly6 homolog RK3 #status predicted <MAT>
F;106-134/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;105/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 16.4%; Score 92; DB 2; Length 134;
Best Local Similarity 29.5%; Pred. No. 0.14;
Matches 31; Conservative 16; Mismatches 36; Indels 22; Gaps 7;

QY 10 LLLVAWSMCGG---ALKCYTCKEPMTSASCHTITRCKPEDTACMT-TLVTVEAEYPPNQ 65
DB 11 MLIFFLALCAERAGLCKYCIIEVPLNANCSTAT-CPYSDGCVSQVLEAVEGS----- 64

QY 66 SPVTVTRSCSS-CVATDP-----DSIGAA--HLIFCCFRDLGNS 101
DB 65 ---VRTAKSNLCPLCPKFPQRTIELGVTVYTKVSCCNTDLGNA 106

RESULT 11

T15689
hypothetical protein C28G1.3 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 15-Mar-2004
C;Accession: T15689
R;Favella, T.
submitted to The EMBL Data Library, November 1995
A;Description: The sequence of C. elegans coemid C28G1.
A;Reference number: Z18389
A;Accession: T15689
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1322 <PAV>
A;Cross-references: EMBL:U41026; NID:G1086701; PID:G1086702; PIDN:AAA82350.1; CESP:C28G1
C;Genetics:
A;Gene: CESP:C28G1.3

A;Introns: 25/1; 131/3; 150/1; 166/3; 180/3; 204/2; 235/3; 344/3; 385/2; 436/3; 483/2;
F;810-862/Domain: RING finger homology <RRN>

Query Match 16.2%; Score 91; DB 2; Length 1322;
Best Local Similarity 31.7%; Pred. No. 0.99; Mismatches 10; Indels 12; Gaps 4;
Matches 26; Conservative 10; Mismatches 10; Indels 12; Gaps 4;

QY 7 VOLLVAWSMCGGALKCYTCCKPMTSAS-----CRTITRCKPED-TACMTTLVTVE- 58
DB 1061 VKMILNKFLPVTCGHAL-CHKCITAMVNNSTVECPFCRTVTNVNNDITKLNKFNALIEV 1119

QY 59 ---AEYFPNQSPVTVTRSCSSC 77
DB 1120 IEDARYSLNKKDVTGCKSQ 1141

RESULT 12

A32506
Ly-6.2 protein precursor - mouse
N;Alternate names: Ly-6A.2 alloantigen; T-cell activation protein; T-cell surface glycoprotein
C;Species: Mus musculus (house mouse)
C;Date: 21-May-1990 #sequence_revision 21-May-1990 #text_change 09-Jul-2004
C;Accession: A32506; A32506; A31935; A28024; I56103; I54492
R;Khan, K.D.; Lindwall, G.; Maher, S.E.; Bothwell, A.L.M.
Mol. Cell. Biol. 10, S150-S159, 1990
A;Title: Characterization of promoter elements of an interferon-inducible Ly-6E/A difference
A;Reference number: A35921; MUID:90377204; PMID:1697928
A;Accession: A35921
A;Molecule type: DNA
A;Residues: 1-134 <KHA>
A;Cross-references: UNIPROT:P05533; GB:M37707; NID:G198929; PIDN:AAA39467.1; PID:G198930
R;Palfree, R.G.E.; LeClair, K.P.; Bothwell, A.; Haemmerling, U.
Immunogenetics 26, 389-391, 1987
A;Title: cDNA characterization of an Ly-6.2 gene expressed in BW5147 tumor cells.
A;Reference number: A32506; MUID:88031496; PMID:2822573
A;Accession: A32506
A;Molecule type: mRNA
A;Residues: 1-134 <PAL>
A;Cross-references: GB:M18184; NID:G198921; PIDN:AAA39463.1; PID:G198922
R;Reiser, H.; Coligan, J.; Palmer, E.; Benacerraf, B.; Rock, K.L.
Proc. Natl. Acad. Sci. U.S.A. 85, 2255-2259, 1988
A;Title: Cloning and expression of a cDNA for the T-cell-activating protein TAP.
A;Reference number: A31935; MUID:88176923; PMID:2895473
A;Accession: A31935
A;Molecule type: mRNA
A;Residues: 1-134 <REI>

A;Cross-references: GB:J03636; NID:G201110; PIDN:AAA40163.1; PID:G201111
R;Reiser, H.; Coligan, J.; Benacerraf, B.; Rock, K.L.
Proc. Natl. Acad. Sci. U.S.A. 84, 3370-3374, 1987

A;Title: Biosynthesis, glycosylation, and partial N-terminal amino acid sequence of the
A;Reference number: A28024; MUID:87204138; PMID:3033645
A;Accession: A28024
A;Molecule type: protein
A;Residues: 'IX', 29-30, 'X', 32-37, 'X', 39-49 <RE2>
A;Note: first residue of this fragment was revised to Leu in reference A31935
R;McGrew, J.T.; Rock, K.L.
J. Immunol. 146, 3633-3638, 1991
A;Title: Isolation, expression, and sequence of the tap/ly-6a.2 chromosomal gene.
A;Reference number: I56103; MUID:91225510; PMID:1709198
A;Accession: I56103
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-134 <RES>
A;Cross-references: GB:M59713; NID:G201112; PIDN:AAA40164.1; PID:G201113
R;Stanford, W.L.; Bruyne, E.; Snodgrass, R.
Immunogenetics 35, 408-411, 1992
A;Title: The isolation and sequence of the chromosomal gene and regulatory regions of the
A;Reference number: I54492; MUID:92250126; PMID:1315719
A;Accession: I54492
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-134 <RES>
A;Cross-references: GB:M73552; NID:G198925; PIDN:AAA39465.1; PID:G198926

Db 72 -----DCSFKRIS---NOLSETQLKYHCKKNLCN 98

RESULT 21

A45835

Ly6 homolog RK10 precursor - rat

C:Species: Rattus norvegicus (Norway rat)

C>Date: 03-Mar-1994 #sequence_revision 03-Mar-1994 #text_change 09-Jul-2004

C:Accession: A45835; B45835

R:Friedman, S.; Palfree, R.G.E.; Sirlin, S.; Haemmerling, U.

Immunogenetics 31, 104-111, 1990

A:Title: Analysis of three distinct Ly6-A-related cDNA sequences isolated from rat kidney

A:Reference number: A45835; MUID:90152758; PMID:2154400

A:Accession: A45835

A:Molecule type: mRNA

A:Residues: 1-135 <FRI>

A:Cross-references: UNIPROT:Q63317; GB:M30689; NID:G205247; PIDN:AAA41546.1; PID:G205248

A:Experimental source: clone RK10

A:Accession: B45835

A:Molecule type: mRNA

A:Residues: 25-54, 'A', 56-62, 'M', 64-67, 'Q', 69-71, 'DHI', 75-77, 'V', 79-80, 'T', 82-85, 'T', 87, 'A'

A:Cross-references: GB:M30692; NID:G205245; PIDN:AAA41545.1; PID:G205246

A:Experimental source: clone RK6

C:Superfamily: Ly-6 antigen; Ly-6 homology

C:Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage

F:1-26/Domain: signal sequence #status predicted <SIG>

F:106/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Asn) (in mature form)

Query Match 14.6%; Score 82; DB 2; Length 135;

Best Local Similarity 26.0%; Pred. No. 1.2;

Matches 27; Conservative 14; Mismatches 57; Indels 6; Gaps 4;

QY 2 ASRWAVQLLVAAWSMGCCEALKCYCTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEY 61

DB 6 AMKSCVLLALLLCAERAOGLNCVMTIPFGNCTSTATCPYDGVGVC--TIQVAEYVV 63

QY 62 PFNOSPVTTRGSSSCSVAT--DPDSIG-AAHL-IFCCFRDLCSN 101

DB 64 SSVRLKVKSNLCLPGCPKSPQTPVELGVTHVHTDCNTDLCA 107

RESULT 22

UN0561

urokinase-type plasminogen activator receptor precursor - bovine

C:Species: Bos primigenius taurus (cattle)

C>Date: 31-Dec-1993 #sequence_revision 06-Sep-1996 #text_change 09-Jul-2004

C:Accession: UN0561; I46977

R:Kraetzschmar, J.; Haendler, B.; Kojima, S.; Rifkin, D.B.; Schleuning, W.D.

Gene 125, 177-183, 1993

A:Title: Bovine urokinase-type plasminogen activator and its receptor: cloning and induction

A:Reference number: UN0560; MUID:93216119; PMID:8385052

A:Accession: UN0561

A:Molecule type: mRNA

A:Residues: 1-330 <KRA>

A:Cross-references: UNIPROT:Q05588; GB:L03545; NID:G163802; PIDN:AAA30802.1; PID:G163803

R:Reuning, U.; Little, S.P.; Dixon, E.P.; Johnstone, E.M.; Bang, N.U.

Thromb. Res. 72, 59-70, 1993

A:Title: Molecular cloning of cDNA for the bovine urokinase-type plasminogen activator receptor

A:Reference number: I46977; MUID:94167671; PMID:8122188

A:Accession: I46977

A:Status: translated from GB/EMBL/DBDJ

A:Molecule type: mRNA

A:Residues: 1-330 <REU>

A:Cross-references: GB:S70635; NID:G545770; PIDN:AAB30120.1; PID:G545771

C:Superfamily: urokinase-type plasminogen activator receptor; Ly-6 homology

C:Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkage

F:1-20/Domain: signal sequence #status predicted <SIG>

F:21-300/Product: urokinase-type plasminogen activator receptor #status predicted <MAT>

F:113-104/Domain: Ly-6 homology <LY6>

F:113-201/Domain: Ly-6 homology <LY6>

F:209-296/Domain: Ly-6 homology <LY6>

F:301-330/Domain: carboxyl-terminal propeptide #status predicted <CPRO>

F:28,72,179,189,279/Binding site: carbohydrate (Asn) (covalent) #status predicted

F:300/Modified site: GPI-anchor ethanolamine amidated carboxyl end (Gly) (in mature form)

Query Match 14.3%; Score 80; DB 1; Length 330;

Best Local Similarity 31.7%; Pred. No. 3.5;

Matches 33; Conservative 11; Mismatches 34; Indels 26; Gaps 8;

QY 9 LLLVAWSMGCCEALKCYCTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNQSP 67

DB 8 LLLVYTYIFG-SWGLRCLQCE---NTSC-SVEECTPGQDLCKRTTVLSWEGG---NEMN 59

QY 68 VVTRSCSSSCVATDPD-----SIGAAHLIF-----CCFRDLCSN 100

DB 60 VVRKGC-----THPDKTRMSYRAADQIITLSETVCRSDLCN 97

RESULT 23

V6NU3E

venom protein CM-13b - cobra (Naja haje annulifera)

C:Species: Naja haje annulifera

C>Date: 22-Jun-1981 #sequence_revision 22-Jun-1981 #text_change 09-Jul-2004

C:Accession: A01670

R:Joubert, F.J.

Hope-Seyler's Z. Physiol. Chem. 356, 1901-1908, 1975

A:Title: Snake venom toxins. The purification and amino acid sequence of toxin CM-13b from

A:Reference number: A01670; MUID:76119554; PMID:1213685

A:Accession: A01670

A:Molecule type: protein

A:Residues: 1-65 <JOU>

A:Cross-references: UNIPROT:P01399

A:Note: the intravenous LD50 value for mouse is 4.82 micrograms/gram body weight

C:Superfamily: snake toxin

C:Keywords: venom

F:3-11,6-42,17-24,46-57,58-63/Disulfide bonds: #status predicted

Query Match 14.1%; Score 79; DB 1; Length 65;

Best Local Similarity 24.4%; Pred. No. 1.3;

Matches 20; Conservative 10; Mismatches 30; Indels 22; Gaps 4;

QY 23 LKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNQSPVV-----TRSCSSSCV 78

DB 1 LTCFNCFE---VVCNRFHFCRNGEKICFKR-----FNRKLLGKRYTRGCAATCP 47

QY 79 ATDPDSIGAAHLIFCCFRDLCSN 100

DB 48 VAKPREI-----VECCSTDRCN 64

RESULT 24

T16553

hypothetical protein K04C2.4 - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004

C:Accession: T16553

R:Pauley, A.

submitted to the EMBL Data Library, April 1994

A:Description: The sequence of C. elegans cosmid K04C2.

A:Reference number: Z18534

A:Accession: T16553

A:Status: preliminary; translated from GB/EMBL/DBDJ

A:Molecule type: DNA

A:Residues: 1-653 <PAU>

A:Cross-references: UNIPROT:Q21209; EMBL:U00044; NID:G470346; PID:G470351; PIDN:AAA50679

A:Experimental source: strain Bristol N2

C:Genetics:

A:Gene: CESP:K04C2.4

A:Introns: 21/2; 41/2; 97/3; 156/2; 176/2; 186/3; 289/3; 361/1; 428/1; 460/3; 499/2; 552

Query Match 13.8%; Score 77.5; DB 2; Length 653;

Best Local Similarity 26.4%; Pred. No. 9.8;

Matches 23; Conservative 11; Mismatches 38; Indels 15; Gaps 3;

QY 22 ALKCYTCKEP-----MTSASCRITTRCKPEDTACMTTLVTVEAEYFPNQSPVWTRSCSS 76

Db 15 AIECVKCKPRGDLQYLGSSCK-----HAYCWECIATFQOKPSKRSSVARHMCPS 66
QY 77 CVATDPDSIGAHLIFCCFRDLNSEL 103
Db 67 AFPLDTSKITEAHMLKTCFDTL--SEL 91

RESULT 25

V6NJLY
venom protein CM-11 - Egyptian cobra
C;Species: Naja haje haje (Egyptian cobra)
C;Date: 31-Oct-1979 #sequence_revision 31-Oct-1979 #text_change 09-Jul-2004
C;Accession: A01672
R;Joubert, F.J.; Taljaard, N.
Eur. J. Biochem. 90, 359-367, 1978
A;Title: Naja haje haje (Egyptian cobra) venom. Some properties and the complete primary
A;Reference number: A91255; MUID:79045337; PMID:710433
A;Accession: A01672
A;Molecule type: protein
A;Residues: 1-65 <JOU>
A;Cross-references: UNIPROT:P01401
C;Superfamily: snake toxin
C;Keywords: venom
F;3-11,6-42,17-24,46-57,58-63/Disulfide bonds: #status predicted

Query Match 13.8%; Score 77; DB 1; Length 65;
Best Local Similarity 24.4%; Pred. No. 1.9;
Matches 20; Conservative 10; Mismatches 30; Indels 22; Gaps 4;
QY 23 LKCYTCKEPMTSASCRITTRCKPEDTACMTTLVTVEAEYFPNOSPVV-----TRSCSSCV 78
Db 1 LTCLICPEKY-----CNKVHTRNGENOCFKR-----FNERKLLGKRYTRGCAATCP 47
QY 79 ATDPDSIGAHLIFCCFRDLN 100
Db 48 EAKPREI-----VECCTTDRCN 64

Search completed: November 10, 2005, 07:59:10
Job time : 42 secs

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